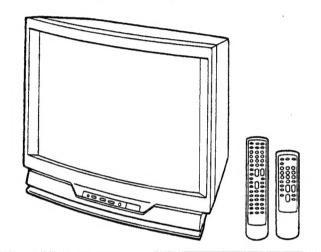
KV-27TS29/27TS32/27TS36 RM-Y116

KV-32T\$36/32T\$46

I-Y118 RM-Y118 SA-W200

SERVICE MANUAL



US Model

KV-27TS29 Chassis No. SCC-F84C-A KV-27TS32 Chassis No. SCC-F84E-A KV-27TS36 Chassis No. SCC-F84D-A KV-32TS36 Chassis No. SCC-F84A-A KV-32TS46 Chassis No. SCC-F84B-A

Canadian Model

KV-27TS29 Chassis No. SCC-F85C-A KV-27TS36 Chassis No. SCC-F85D-A KV-32TS36 Chassis No. SCC-F85A-A KV-32TS46 Chassis No. SCC-F85B-A

AA-1 CHASSIS

MODELS OF	THE	SAME	SERIES	
KV-27TS29/27TS32/27TS KV-32TS36/32TS46	536			
KV-2970RS/2970M/2975	М			

SPECIFICATIONS

Television system

American TV standards

Input

Channel coverage

VHF: 2-13 UHF: 14-69 Cable TV: 1-125

Picture tube

Hi-Black™ Trinitron® tube 27-inch picture measured diagonally 29-inch picture tube measured

diagonally (KV-27TS29/27TS32/27TS36)

32-inch picture measured diagonally 34-inch picture tube measured diagonally (KV-32TS36/32TS46)

Antenna

75-ohm external antenna terminal for

VHF/UHF

VIDEO and S VIDEO

S VIDEO IN (S terminal)

Y: 1 Vp-p, 75-ohms unbalanced, sync negative

C: 0.286 Vp-p (Burst signal), 75-ohms

Video (phono jacks): 1 Vp-p, 75-ohms unbalanced, sync

negative

Audio (phono jacks): 500 mVrms

(100% modulation) Impedance: 47 kilohms

- Continued on next page -

TRINITRON® COLOR TV



(V-27TS29/27TS32/27TS36 RM-Y116

2TS36/32TS46

Output

AUDIO OUT (phono jacks)

More than 408 mVrms at the maximum volume setting (variable) More than 408 mVrms (fix)

Impedances: 5 kilohms

Speaker output

5 W x 2

Audio frequency

: FRONT 80Hz - 20kHz

response

Power requirements 120 V AC, 60 Hz

Power consumption

KV-27TS29	165 W
KV-27TS32	165 W
KV-27TS36	170 W
KV-32TS36	195 W
KV-32TS46	205 W

standby mode

5 W

Dimensions/Weight

	Dimensions (w/h/d)	Weight
KV-27TS29	661 × 603 × 522 mm (261/8 × 233/4 × 205/8 in.)	45 kg (99 lbs 4 oz)
KV-27TS32	661 × 603 × 522 mm (26 ¹ / ₈ × 23 ³ / ₄ × 20 ⁵ / ₈ in.)	45 kg (99 lbs 4 oz)
KV-27TS36	661 × 603 × 522 mm (261/6 × 233/4 × 205/6 in.)	45 kg (99 lbs 4 oz)
KV-32TS36	781 × 712 × 612 mm (30³/4 × 28¹/s × 24¹/s in.)	71 kg (156 lbs 9 oz)
KV-32TS46	781 × 712 × 612 mm (30³/ ₄ × 28¹/ ₈ × 24¹/ ₈ in.)	71 kg (156 lbs 9 oz)

Supplied accessories

(KV-27TS29)

Remote Commander RM-Y116(1) with 2 size AA (R6) EVEREADY batteries

(KV-27TS32)

Remote Commander RM-Y117(1) with 1 size AA (R6) EVEREADY battery (KV-27TS36/32TS36/32TS46) Remote Commander RM-Y118(1) with 1

size AA (R6) EVEREADY battery

(KV-32TS46) Active Super Woofer

Recommended accessories

U/V mixer EAC-66 Connecting cable VMC-810S/820S, VMC-720M, YC-15V/30V, RK-74A

Design and specifications are subject to change without notice.

WARNING!!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.

THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARK Λ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL, FOLLOW THESE PROCEDURES WHENEVER CRITI-CAL COMPONENTS ARE REPLACED OR IMPROPER OPERA-TION IS SUSPECTED.

ATTENTION!!

AFIN D'EVITER TOUT RISQUE D'ELECTROCUTION PROVENANT D'UN CHÁSSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÉ LORS DE TOUT DÉPANNAGE. LE CHÁSSIS DE CE RÉCEPTEUR EST DIRECTEMENT RACCORDÉ Á L'ALIMENTATION SECTEUR.

ATTENTION AUX COMPOSANTS RELATIFS ÁLA SÉCURITÉ!!

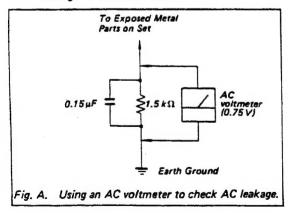
LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET PAR UNE MAPQUE A SUR LES SCHÉMAS DE PRINCIPE, LES VUES EXPLOSÉES ET LES LISTES DE PIECES CONT D'UNE IMPORTANCE CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÉCE EST INDIQUÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY. LES RÉGLAGES DE CIRCUIT DONT L'IMPORTANCE EST CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT SONT IDENTIFIES DANS LE PRÉSENT MANUEL. SUIVRE CES PROCÉDURES LORS DE CHAQUE REMPLACEMENT DE COMPOSANTS CRITIQUES, OU LORSQU'UN MAUVAIS FONCTIONNEMENT EST SUSPECTÉ.

SAFETY CHECK-OUT

(US Model only)

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

- Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
- Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
- Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
- Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
- Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
- Check the line cord for cracks and abrasion.
 Recommend the replacement of any such line cord to the customer.
- 7. Check the condition of the monopole antenna (if any).
 - Make sure the end is not broken off, and has the plastic cap on it. Point out the danger of impalement on a broken antenna to the customer, and recommend the antenna's replacement.
- Check the B+ and HV to see they are at the values specified. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
- Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.



LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

- A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
- A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
- 3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

HOW TO FIND A GOOD EARTH GROUND

A cold-water pipe is guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth-ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms. If a cold-water pipe is not accessible, connect a 60-100 watts trouble light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side of the line, the lamp should light at normal brilliance if the screw is at ground potential. (See Fig. B)

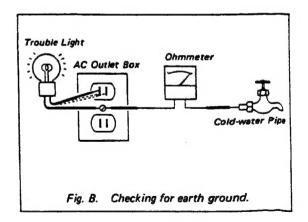


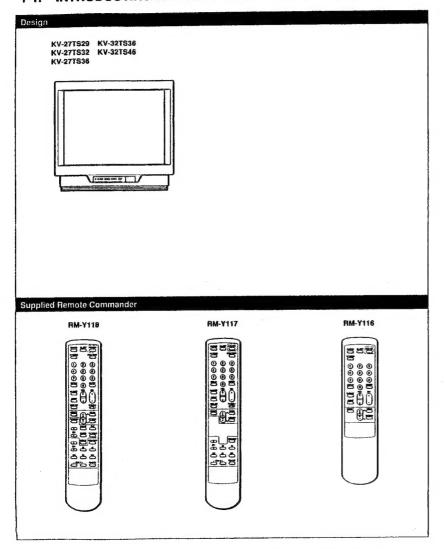
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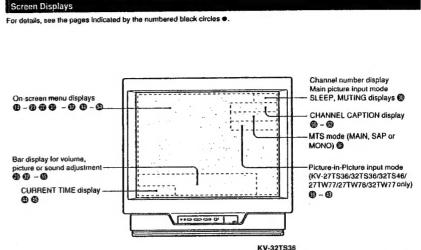
SECTION 1 GENERAL

This section is extracted from instruction manual.

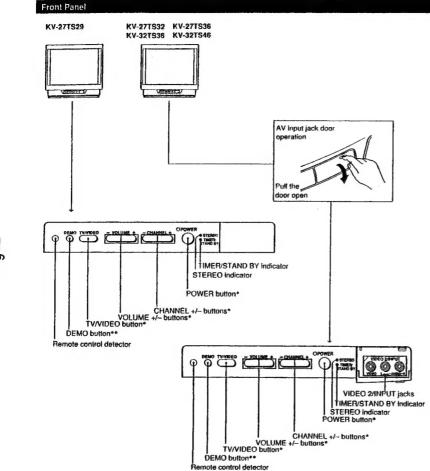
1-1. INTRODUCTING THE SONY TRINITRON® COLOR TV



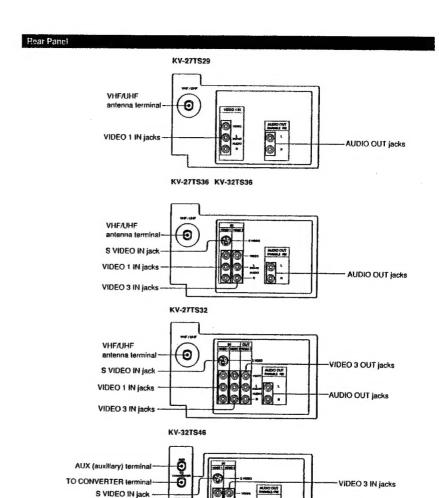
1-2. LOCATING THE CONTROLS



KV-32TS36 (The screen displays, except for certain features as noted above, are the same for all models.)



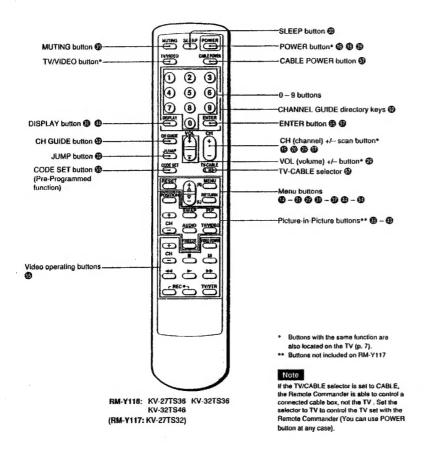
- * Buttons with the same function are also located on the Remote Commander (pp. 10 - 11).
- ** If you press this button, functions and menues are displayed one by one. Press any button to stop DEMO.

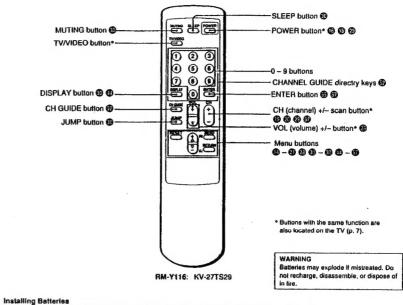


- AUDIO OUT jacks

VHF/UHF antenna terminal

VIDEO 1 IN Jacks

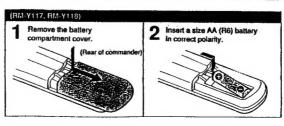




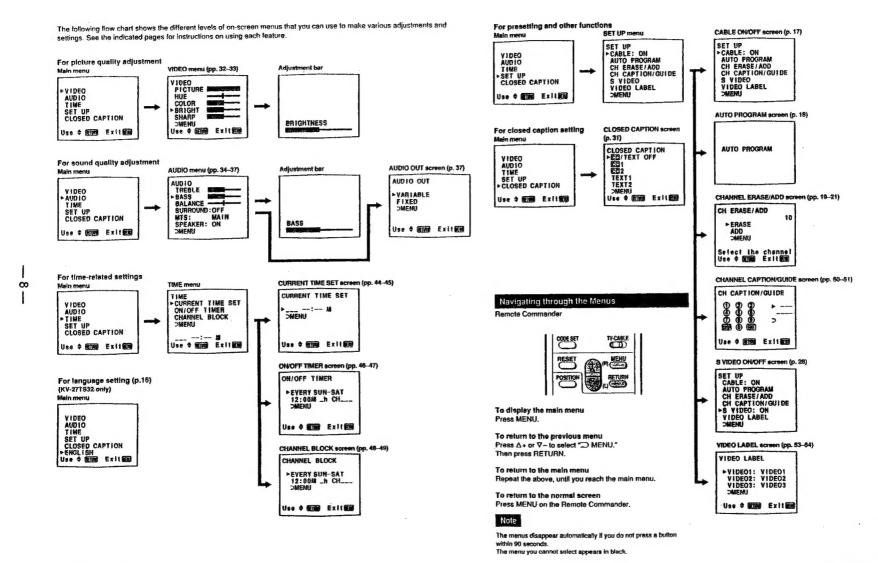
(RM-Y116) 2 Insert two size AA (R6) Remove the battery compartment cover. batteries in correct polarity. (Rear of commander

Battery life With normal operation, batteries will last up to half a year. If the Remote Commander dose not operate properly, the batteries might be exhausted. Replace both of them with new ones.

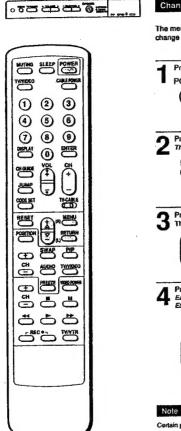
To avoid damage from possible battery leakage Remove the batteries if you do not plan to use the Remote Commander for a fairly long time.

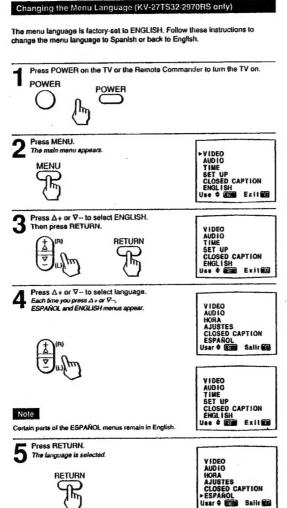


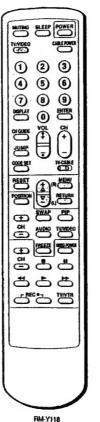
1-3. USING THE ON-SCREEN MENUS



1-4. TURNING THE CABLE MODE ON OR OFF





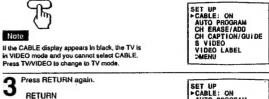


Press MENU.

Spanish menu

All of the controls are on the Flemole

If you have cable connected to your TV (pp.12-13), follow the steps below to turn the cable connection on or off. CABLE is preset to ON when you use your TV for the first time. Then turn CABLE to OFF to preset or watch VHF or UHF channels (pp.18-21 and 29). Press MENU. The main menu appears. -VIDEO AUDIO TIME SET UP CLOSED CAPTION MENU Use + COM Exit Press ∆+ or V- to select SET UP. VIDEO AUDIO TIME SET UP CLOSED CAPTION Use 4 Mill Exited Press RETURN. The SET UP menu appears, and the cursor points to "CABLE". RETURN





SET UP
CABLE: ON
AUTO PROGRAM
CH ERASE/ADD
CH CAPTION/GUIDE
S VIDEO
VIDEO LABEL DMENU SET UP

CABLE: OFF AUTO PROGRAM CH ERASE/ADD CH CAPTION/GUIDE S VIDEO VIDEO LABEL

Press RETURN. The setting is completed.

To return to the normal screen

RM-Y118

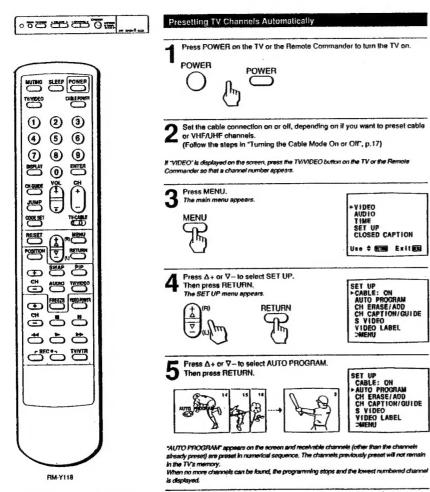
To return to the normal screen Press MENU.

16 | Chapter 1: Setting Up

Chapter 1: Setting Up | 17

9

1-5. PRESETTING TV CHANNELS



MUTTHS SLEEP POWER 2 3 **(5) (6)** 4 8 (9) 7 0 JUMP **65** TYCABLE T NETURN Œ CH CH Œ 5 O 000 CARCO TYMTR RM-Y118

Erasing Unnecessary Channels—CHANNEL ERASE

Use this feature to erase unnecessary TV channels, so that when you press CH +/-, the channel(s) are skipped.

Press MENU. The main menu appears

MENU

VIDEO AUDIO SET UP CLOSED CAPTION Use ¢ (Exit

Press ∆+ or V- to select SET UP.

AUDIO SET UP CLOSED CAPTION Use 中面画 Exited

Press RETURN. The SET UP menu appears.

RETURN

SET UP > CABLE: ON AUTO PROGRAM CH ERASE/ADD CH CAPTION/GUIDE S VIDEO VIDEO LABEL >MENU

Press ∆+ or ∇- to select CH ERASE/ADD.

SET UP CABLE: ON AUTO PROGRAM

Press RETURN. The CH ERASE/ADD screen appears, and the cursor points to "ERASE".

RETURN

CH CAPTION/GUIDE S VIDEO VIDEO LABEL DMENNI

CH ERASE/ADD ► ERASE ADD

Select the channe!

If CH ERASE/ADD display appears in black, the TV is in video mode and you cannot select CH ERASE/ADD.

Press TV/VIDEO to change to TV mode.

WHE WHILE CHOM 2-13 | 14-69 | 1-125 To erase unnecessary channels, or to add channels that could not be preset automatically because their signal was too weak, follow the steps in "Erasing Unnecessary Channels -- CHANNEL ERASE" (pp.19-20) and "Presetting Only Desired Channels -- CHANNEL ADD" (p. 21).

- VIDEO

AUDIO

SET UP

CLOSED CAPTION

Use + mm Exitem

SET UP
CABLE: ON
AUTO PROGRAM
CH ERASE/ADD
CH CAPTION/GUIDE
S VIDEO

S VIDEO

DMENU

VIDEO LABEL

SET UP CABLE: ON >AUTO PROGRAM CH ERASE/ADD

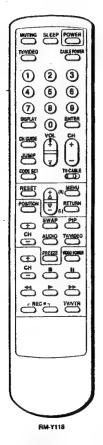
S VIDEO VIDEO LABEL

CH CAPTION/QUIDE

Chapter 1: Setting Up | 19

18 | Chapter 1: Setting Up

70



To return to the normal screen
Press MENU.

Note

When you erase a VHF or UHF channel, the cubie TV channel with the same number is also erased, and vice versa.

Press the CH+/- button its select the channel you want to erase. For example, to erase channel 8, press CH+/- until 8 appears.



Press RETURN.

A "-" sign appears in front of the channel number display, indicating that the channel is erased from the channel scan memory.





The next time you press the CH+/- buttons, channel 8 will be skipped.

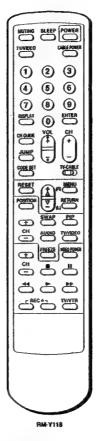
To erase other channels Repeat step 4.

Cable TV channel chart*

Cable TV systems use letters or numbers to designate channels. To tune in a channel, refer to the chart below.

Auriber on 1944	Corresponding cable TV channel	Number on	Corresponding cable
AND IN THE STATE OF	VISIT V CHAPPINE	ARRIVATION OF THE PERSON OF TH	S. S. M. A. CLIMARAN S. S.
1	A-8	33	T
5	A-7	34	U
6	A-6	35	V
14	A	36	W
15	8	37	W+1
16	C	38	W+2
17	D	39	W+3
18	E		1
19	F	93	W+57
20	G	94	W+58
21	Н	95	A-5
22		. 96	A-4
23	J	97	A-3
24	K	98	A-2
25	L	. 99	A-1
26	M	100	W+59
27	N :	101	W+60
28	0	102	W+61
29	P		1
30	Q	123	W+82
31	Ř	124	W+63
32	S	125	W+84

 This designation of cable TV channels conforms to the EIA/NCTA recommendation.
 Check with your local cable TV company for more complete information on the available channels.



Presetting Only Desired Channels—CHANNEL ADD

Use this feature to add channels one by one to the channel scan memory.

1 -3 (Follow steps 1-3 in *Erasing Unnecessary Channels—CHANNEL ERASE,* p.19.)

Note

ti the CH ERASE/ADD display appears in black, the TV is in video mode and you cannot select CHANNEL ERASE/ADD.

Press TV/VIDEO to change to TV mode.

Press \triangle + or \forall - to select ADD.



CH ERASE/ADD

ERASE
►ADD
→MENU

Select the channel
Use © ® ® Exite®

5 Press 0-9 and ENTER to select the channel you want to add. For example, to add channel 25, press 2, 5 and ENTER.

 CH ERASE/ADD

25

ERASE
→ ADD

DMENU

Select the channel
Use ♦ \$\frac{1}{2} \text{DED} \text{Exilon}

Press RETURN.

A "+" sign appears in front of the channel number display, indicating that the channel is added to the channel scan memory.

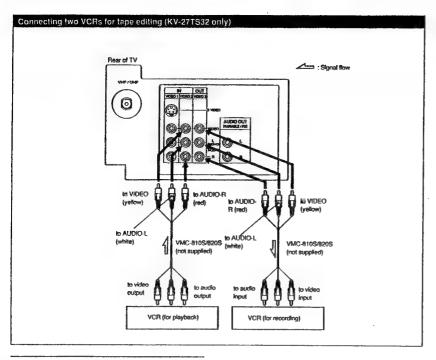
RETURN

To add other channels Repeat step 5. _____

To return to the normal screen Press MENU.

Note

If you add a VHF or UHF channel, the cable TV channel with the same number is also added, and vice versa.

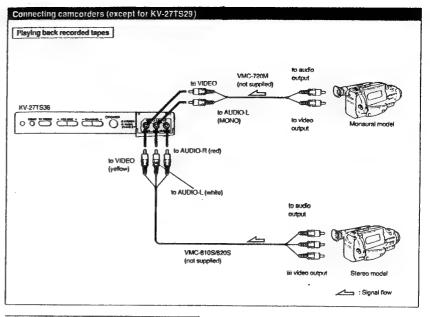


Watching a different image while duplicating

You can duplicate your recorded tapes by connecting two

The VIDEO 3 OUT jacks only output the signal from the VIDEO 3 IN jacks. Connect a VCR for playback to VIDEO 3 IN jacks, and a VCR for recording to the VIDEO 3 OUT lacks. You can watch a TV program or images from VIDEO 1 IN or VIDEO 2 IN during duplicating.

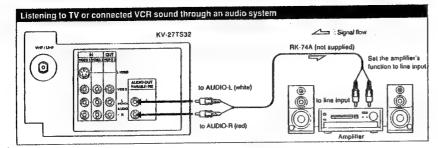
To watch a different input image Press TV/VIDEO on the TV or on the Remote Commander to select the input image you want to watch.



Preparing for use

Same as p. 23.

Audio System



Preparing for use

Display the mode set menu and set SPEAKER to OFF to cut off the TV speaker sound (p. 37), and listen to the TV's sound solely through the audio system speakers.

By setting AUDIO OUT variable, you can adjust the bass, treble and balance, or select surround or an MTS (Multichannel TV Sound) mode, using the on-screen menus (pp. 34-36).

Connecting active super wooter (supplied with KV-32TS46 only)

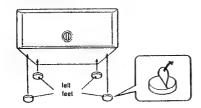
Preparing for use

To enjoy the active super wooter sound, make sure the connections are made as illustrated on the next page.

The woofer volume varies according to the TV volume. Adjust the wooler level control properly.

The active super wooler outputs the signal input to its AUDIO IN jacks. If you connect an audio system to the active super woofer's AUDIO OUT jacks, you can enjoy the sound from the audio system and the active super wooler simultaneously.

To make the active super wooler stable, attach the felt feet (supplied) to the bottom.



- . Do not place the wooter on the TV set. To enjoy good sound, place the wooler on a hard object near the TV avoiding soft objects like carpets, solas, etc.
- . If you do not use the TV for more than 20 seconds, the active super wooler is turned off automatically to save on power consumption.
- . When you release MUTING, the sound of the wooler is heard before that of the TV. This is normal.
- . If you set SPEAKER to OFF in the AUDIO menu and select FIX in the AUDIO OUT menu (p.37), the volume of the wooler may be excessive. We recommend that you set SPEAKER to ON when you use the active super woofer.
- You should only connect the KV-32TS46 to the AC outlet on the active super woofer.

Active Super Wooler Specification

500 mVrms (100% modulation) Input: 500 mVrms (100% modulation) Output:

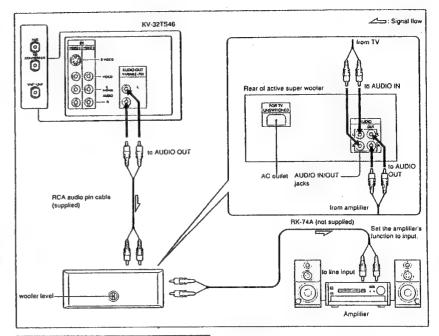
Impedance: 20 kilohms Speaker output: 9 W (100 Hz)

Dimensions: 435 x 165 x 164 mm (W x H x D)

(171/4 × 61/2 × 61/2 in.)

Mass:

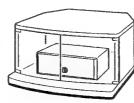
3.9 kg (8 % s 10 oz)



Using TV stand

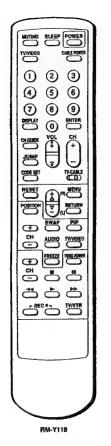
When you place the active super wpoler on a TV stand (not supplied), remove the rear panel of the stand.

Sony or other manufacture's stand



For good sound quality, avoid placing the stand in front of a curtain or close to a wall.

1-7. WATCHING TV PROGRAMS

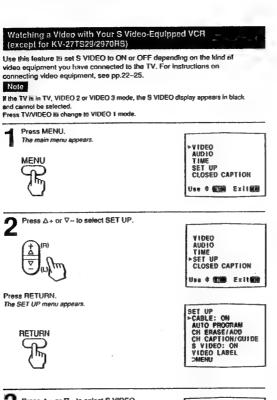


To return to the normal screen Press MENU.

Note

4

If you set S VIDEO to ON, the TV automatically receives S video signals whenever.a VCR with S video in connected



Press ∆+ or ∇- to select S VIDEO. Then press RETURN.



RETURN

SET UP CABLE: ON AUTO PROGRAM CH ERASE/ADD CH CAPTIOL GUIDE S VIDEO: ON VIDEO LABEL

SET UP CABLE: ON AUTO PHOGRAM CH ERASE/ADD CH CAPTION/GUIDE S VIDEO: OFF

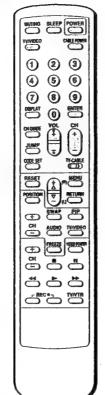
VIDEO LABEL

Press $\Delta +$ or $\nabla -$ to select ON or OFF alternately.



Press RETURN. The setting is completed





RM-Y118

Press POWER on the TV or the Remote Commander to turn the TV on. The TIMER/STAND BY indicator blinks until the picture appears.

POWER POWER

Turn the cable mode on or off to select the type of channel you want to watch, VHF/UHF or cable TV. (Follow the steps in "Turning the Cable Mode On or Off," p. 17.)

If "VIDEO" or "S VIDEO" is displayed on the screen, press the TV/VIDEO button on the TV or on the Remote Commander so that the channel number appears.

Select a channel in one of the following two ways:

To scan the preset channels* in numerical sequence Press CH +/-.





• For more information on presetting channels, see pp. 18 - 21.

To select a channel directly Press 0 - 9 and ENTER.

For example, to select channel 14, press 1, 4 and ENTER.

(1) (2) (3) **4 5 6** (1) (1) (1) (1) (1) **50** 5



Press VOL +/- to adjust the volume.



The display will disappear automatically after 3 earands.



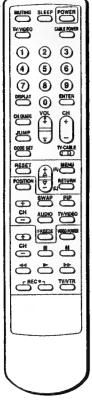
Press + to increase the volume. Press - to decrease the volume.

Press POWER on the TV or the Remote Commander again.

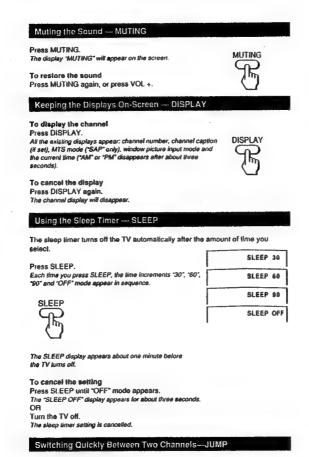
To turn off the TV

1-8. USING CONVENIENT FEATURES

1-9. USING CLOSED CAPTION (U.S.A. models only)



ū

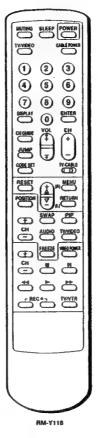


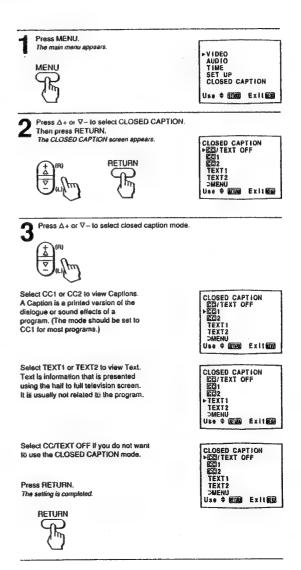
Press JUMP once to recall the channel you were watching previously. Press

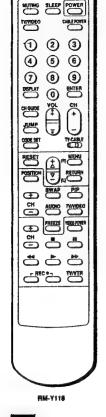
JUMP again to switch back. Use this

feature to keep track of two programs

alternately







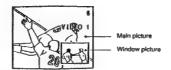
To operate your VCR with the supplied Remote Commander, See "Using the Pre-Programmed Remote Commander, pp. 55-57.

Chapter 3: Using Advanced Features

You can watch both the main picture and a window picture simultaneously by using the Picture-In-Picture (PIP) function.

Model KV-32TS46 is equipped with two-tuner PIP, allowing you to watch two TV channels at once.

Other models are equipped with one-tuner PIP. To watch two different TV channels, you must first connect a VCR to the TV, to watch a second TV channel through the VCR tuner. (See "Connecting Other Equipment", pp. 22-27.)



Picture-in-Picture special features

When watching the main picture and a window picture, you can:

- . Swap the main and window pictures (SWAP).
- Change the position of the window picture (POSITION).
- . Display a still picture as a window (FREEZE).
- . Choose the sound from the main or window picture (AUDIO).

Displaying a window picture-PIP

Press PIP to display a window picture

Input-source mode or TV channel for the main picture





Input-source mode or TV channel for the window picture

Press PIP again to display a smaller window picture





To disappear the window picture Press PIP once more.

Changing the window picture input mode

Press PIP to display a window picture.





Press TV/VIDEO in the Picture-in-Picture control area to select the input mode.

Each time you press TV/VIDEO, "TV", "VIDEO 1", "VIDEO 2" and "VIDEO 3" appear in sequence.





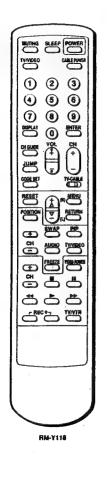
A window picture will appear in the same input mode as the last time you used PIP.

To receive the window picture sound Press AUDIO.

The fisplay appears for a few seconds, indicating that the window picture sound is

To restore the main picture sound Press AUDIO again.

- . If the main picture is not receiving an image, the window picture may be in black and
- . When you turn PIP on or when you turn the TV on with PIP mode on the window picture will appear at the bottom right of the screen.
- . The window picture may be affected by the
- condition of the main picture.
- The window picture sound in also output from the VARIABLE/FIX AUDIO OUT jacks.



Changing TV channels in the window picture

Press PIP to display a window picture.





Press CH +/- in the PIP control area.





Changing the position of the window picture—POSITION

Press PIP to display a window picture.





Press POSITION. Each time you press POSITION, the window picture will move counterclockwise on the screen, as illustrated below.





Displaying a still picture --- FREEZE

Use the FREEZE function to display a still picture as a window. This function is useful when you want to write down a recipe from a cooking program, a displayed address or a phone number and so on.

Press PIP to display a window picture.





Press FREEZE. The window picture image remains still on the screen.





To restore the normal picture Press FREEZE again.

Swapping the main and window pictures — SWAP

Press PIP to display a window picture.

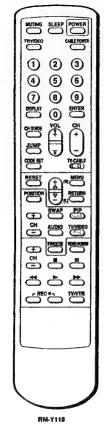




Press SWAP. Each time you press SWAP, the images from the main Press SWAP. and window pictures switch places.

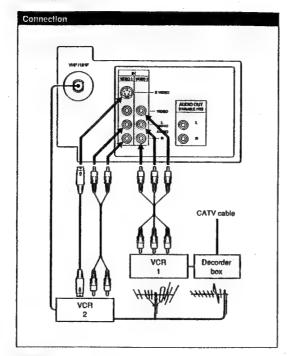






Displaying a pay cable TV channel as a window picture

To display a pay cable TV channel as a window picture, connect your decorder box as illustrated below.



The channels being received through the AUX terminal cannot be displayed as a window picture. (KV-32TS46 only)

After making the connections, turn the cable mode on by following the steps "Turning the Cable Mode On or Off", p. 17. Then continue with steps below.

Press PIP to display a window picture.





2 Press 1 mode. Press TV/VIDEO in the Picture-in-Picture control area to select the input Each time you press TV/VIDEO, "TV", "VIDEO 1", "VIDEO 2" and "VIDEO 3" appear

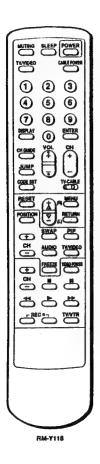


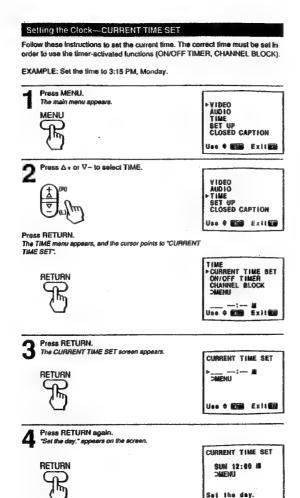


Put your VCR on an inactive channel (CH 3 or 4).

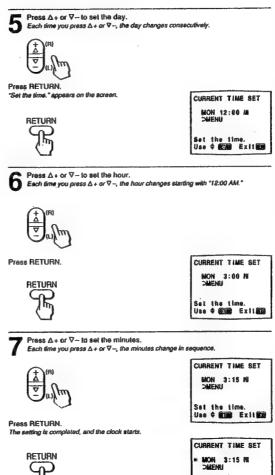
Change pay cable TV channels with the decorder box.

1-11. USING THE TIMER-ACTIVATED FUNCTIONS





Use 4 @ Exit@



To reset the time Press RESET while in the CURRENT TIME screen, and repeat steps 4-7.

To display the time Press DISPLAY.

To return to the normal screen Press MENU.

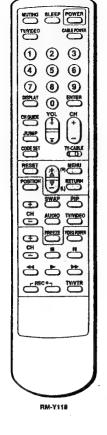
Notes

. The internal clock of this TV operates on a 12hour cycle. If a 24-hour cycle number (for instance, 13:00) is entered, it will be cleared when you press RETURN.

12:00 AM stands for midnight. 12:00 PM stands for noon.

 All the settings including CURRENT TIME SET will be erased if you unplug the TV or a power failure occurs. Reset the current time by following steps 1-7.

Use ¢ (m) Exit



Setting the ON/OFF TIMER With this function you can set your favorite program in appear on the screen at the time that you set. EXAMPLE: Set the timer to turn on the TV every Monday through Friday at 3:15 PM for 2 hours, on channel 21. Press MENU. The main menu appears. MENU

- YIDEQ AUDIO TIME SET UP CLOSED CAPTION Use of MEDES ExitMES

Press $\triangle +$ or $\nabla -$ to select TIME. Then press RETURN. The TIME menu appears.





TIME CURRENT TIME SET OH/OFF TIMER CHANNEL BLOCK

MON 3:15 M Use # Exites

Press △+ or ∇- to select ON/OFF TIMER. Then press RETURN. The ON/OFF TIMER screen appears.





ON/OFF TIMER **EVERY SUN-SAT** 12:00M _h CH___ Use ♦ (1780 Exit(1880)

Note

If the ON/OFF TIMER display appears in black, the current time has not been set and you cannot select ON/OFF TIMER. To set the clock, see "Setting the Clock--CURRENT TIME SET", pp. 44-45.

Press RETURN again. "Set the day," appears on the screen.



ON/OFF TIMER **EVERY SUN-SAT** 12:60M _h CH___

Set the day. Use + Em Exit Press ∆+ or ∇- to set the day.

Each time you press Δ + or ∇ -, the days of the week change as shown in Fig. 1. Then press RETURN.

"Set the time," appears on the screen.





ON/OFF TIMER EVERY MON-FRY 12:00H _h CH___ Use 4 THE Exit

Set the time.

Press $\Delta +$ or $\nabla -$ to set the hour that you want the TIMER to start. Press Δ + or ∇ - to set the hour that you want the TIME. Each time you press Δ + or ∇ -, the hour changes in sequence Then press RETURN.





ON/OFF TIMER EVERY MON-FRY 3:00% _h CH___

Set the time. Use 4 Mill Exited

Press ∆+ or ∇- to set the minutes. Each time you press ∆ + or ∇ -, the minutes change Then press RETURN. "Set the duration," appears on the screen





ON/OFF TIMES EVERY MON-FRY 3:15M _h CH___ Set the duration. Use \$ 1000 Exited

Press △+ or ∇- to set the duration of time. Each time you press ∆ + or ∇ -, the duration changes



from "1" to "6" in sequence.

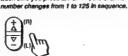
Then press RETURN.

RETURN J.

ON/OFF TIMER EVERY MON-FRY 3:159 2h CH___ Select the channel

Use \$ 1000 Exited

Press Δ + or ∇ - to set the channel that you want the TV to tune in. Each time you press ∆+ or ∇-, the channel



Press RETURN. The setting is completed, and the TIMER Indicator on the front of the TV lights up.

RETURN

ON/OFF TIMER EVERY MON-FRY 3:15M 2h CH 21

Select the channel
Use 4 1000 Exit

ON/OFF TIMER ►EVERY MON-FRY 3:1571 2h CH 11 DMENU

Use 中版面 Exiting

To clear the ON/OFF TIMER setting Press RESET white in the ON/OFF TIMER

To return to the normal screen Press MENU.

Notes

. While the TIMER ■ set, the TIMER indicator on the TV is on.

 One minute before the timer goes off, the "TV will turn off" display will appear on the screen.

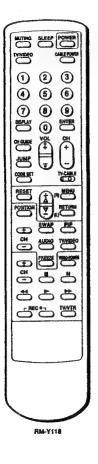
 All the settings including ON/OFF TIMER will be erased if you unplug the TV or a power failure occurs. Reset the ON/OFF TIMER by following steps 1-9.

 If you have not set the clock correctly, the ON/ OFF TIMER will not operate at the proper time. To set the clock, see "Setting the Clock-CURRENT TIME SET", pp. 44-45.

Selecting the day(s) of the week When you press $\Delta +$, the days of the week appear in the following order.



Chapter 3:Using Advanced Features | 47



Setting CHANNEL BLOCK

Use this function to block a channel from appearing on the screen during the time you specify. You can use this function to prevent children from watching undesirable programs.

EXAMPLE: Set CHANNEL BLOCK every Sunday at 8:45 PM for one hour, on channel 38.

Press MENU. The main menu appears

MENU

VIDEO AUDIO TIME SET UP CLOSED CAPTION Use 4 Min Exiting

Press Δ+ or ∇- to select TIME. Then press RETURN. The TIME menu appears.





TIME
CURRENT TIME SET
ON/OFF TIMER
CHANNEL BLOCK
OMENU MON 3:15 PE Use 4 @ Exit@

Press △+ or ∇- to select CHANNEL BLOCK. Then press RETURN. The CHANNEL BLOCK screen appears.





CHANNEL BLOCK PEVERY SUN-SAT tian 4 mm Exitem

Note

If the CHANNEL BLOCK display appears in black, the current time has not been set and you cannot select CHANNEL. BLOCK. To set the clock, see "Setting the Clock-CURRENT TIME SET*, pp. 44-45.

Press RETURN again. "Set the day." appears on the screen.



CHANNEL BLOCK EVERY SUN-SAT 12:00M _h CH.....

Set the day. Use 4 mm Exit 5 Press Δ + or ∇ - to set the day. Each time you press Δ + or ∇ -, the Each time you press $\Delta +$ or $\nabla -$, the days of the week change as shown in Fig. 1.(See p. 47.)

Then press RETURN. "Set the time." appears on the screen.



RETURN J.

CHANNEL BLOCK CHMDAY 12:00A _h CH___ **MENU** Set the time. Use 4 100 Exit

Press Δ + or ∇ - to set the hour. Each time you press $\Delta +$ or $\nabla -$, the hour changes in sequence. Then press RETURN.



RETURN JK,

CHANNEL BLOCK SUNDAY 8:00M _h CH___ Set the time. Use 4 EM Exitem

Press $\triangle + \text{ ar } \nabla - \text{ to set the minutes.}$ Each time you press $\Delta +$ or $\nabla -$, the minutes change in sequence. Then press RETURN.

"Set the duration," appears on the screen



RETURN گلگ

CHANNEL BLOCK SUNDAY 8:45/H _h CH__ DMENU Set the duration. Use 4 CHE Exit

Press ∆+ or ∇- to set the duration of time that you want the TV remain blocked. Each time you press $\triangle +$ or $\nabla -$, the duration changes from 1 to 8 in sequence.

Then press RETURN.

"Select the channel" appears on the screen.



RETURN

CHANNEL BLOCK SUNDAY 8:4574 1h CH.... Select the channel

Press △+ or ∇- to set the channel that you want to block. Each time you press ∆+ or ∇-, the channel number

changes from 1 to 125 in sequence.



Press RETURN. The setting is completed.

RETURN

CHANNEL BLOCK SUNDAY 8:4579 1h CH 38 DMENU Select the channel

Usa ¢ Exiten

CHANNEL BLOCK - SUNDAY

if you select a channel which has been blocked. the message of "BLOCKED" appears.

BLOCKED

To clear the BLOCK setting Press RESET while in the CHANNEL BLOCK

To return to the normal screen Press MENU.

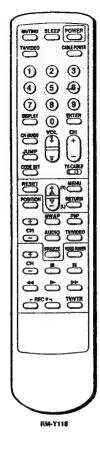
Notes

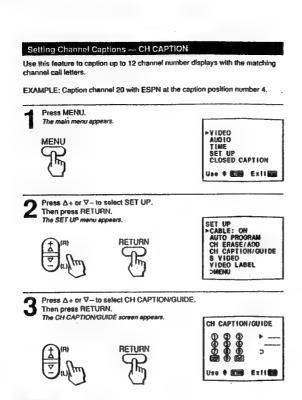
- . If you set a new CHANNEL BLOCK by following steps 1-9, the original setting will be erased.
- . If you have not set the clock correctly. CHANNEL BLOCK will not operate at the proper time. To set the clock, see "Setting the Clock-CURRENT TIME SET", pp. 44-45.

8:45N in CH 38

Use \$ Em Exited

1-12. CUSTOMIZING THE SCREEN DISPLAY







If the CH CAPTION display appears in black, the TV is in video mode and you cannot select CH CAPTION/GUIDE, Press TV/ VIDEO to change to TV mode.

Press RETURN again. "Select a position," appears on the screen.





Press ∆+ or ∇- to select a caption position number. Each time you press ∆+ or ∇-, the caption position number is marked in sequence. Then press RETURN.

"Select the channel" appears on the screen.





steps 1-5, and press RESET. To return to the normal screen Press MENU.

To erase unneeded captions

Call the caption setting screen by following

Press $\Delta +$ or $\nabla -$ to select the channel you want to caption. Press Δ+ or ∇− to select the channel you want to caption.

Each time you press Δ+ or ∇−, the channel number changes from 1 to 125. Then press RETURN.

"Select the letter." appears on the screen.



RETURN



Press ∆+ or ∇- to select the first letter. Each time you press Δ+ or ∇-, "0-9", "A-Z", "8", "|", "-" and "_(blank space)" appear

Then press RETURN.



RETURN



Repeat step 7 to select each remaining letter. (For a 3-letter caption, leave a space by pressing RETURN only.)





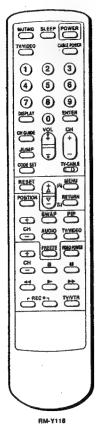


Press RETURN. The setting is completed



To caption other channels Repeat steps 4-9.





Viewing the Captioned Channels -- CH GUIDE

Use this feature to display the captions you set, and to select a channel directory for viewing.

Press CH GUIDE.

A directory appears, corresponding to the directory keys on the Remote

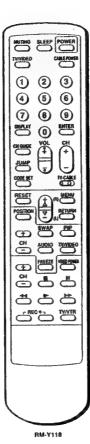
CHANNEL GUIDE () ABC_@DIS_@CNN **CH GUIDE**

To cancel the CHANNEL GUIDE screen Press CH GUIDE again.

Press the directory key of the channel you want to watch.







Setting VIDEO LABEL (except for KV-27TS29/2970RS)

Use this feature to label each input mode in order to identify the equipment connected to each input terminal.

EXAMPLE: Label VIDEO 1 IN as VHS.

Press MENU. The main menu appears.



VIDEO AUDIO TIME SET UP CLOSED CAPTION Use ¢ 2000 Exit

Press ∆+ or ∇- to select SET UP.



VIDEO AUDIO TIME SET UP CLOSED CAPTION

Use 4 EMB Exilem

Press RETURN. The SET UP menu appears.

RETURN

SET UP
CABLE: ON
AUTO PROGRAM
CH ERASE/ADD
CH CAPTION/GUIDE
S VIDEO: ON VIDEO LABEL DMENU

Press ∆+ or ∇- to select VIDEO LABEL.



SET UP
CABLE: ON
AUTO PROGRAM
CH ERRE/ADD
CH CAPTION/GUIDE
S VIDEO: ON
>VIDEO LABEL
DMENU

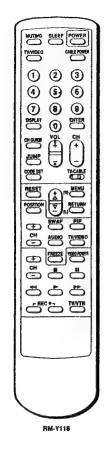
Press RETURN. The VIDEO LABEL screen appears.

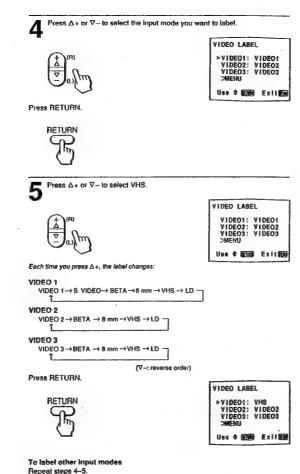
RETURN

VIDEO LABEL VIDEO1: VIDEO1 VIDEO2: VIDEO2 VIDEO3: VIDEO3

Use ♦ (ma) Exit(ma)

1-13. USING THE PRE-PROGRAMMED REMOTE COMMANDER





WITING SLEEP POWER CAULE FORE 3 ① 2 4 (5) 6 7 8 (9) 0 245 CODE SET TYCUNE MESET Œ STEC TYNTR

AM-Y118

You can operate your video equipment and cable converter box that has an infrared remote detector with this supplied pre-programmed Remote

Operating Sony or non-Sony Video Equipment-Pre-Programmed Function

With the supplied Remote Commander, you can operate a Sony video cassette recorder (Beta, 8 mm, VHS) or a multi disc player as well as most non-Sony video equipment connected to your TV by following the steps below.

While pressing CODE SET, press 0 - 9 to enter the manufacturer's code number (see chart on p. 56). For example, to operate a Sony 8 mm VCR, press 0, 2 and ENTER.



Use the video operating buttons on the Remote Commander to operate the video equipment.

Operating a VCR

To turn on or off Press VIDEO POWER. To change channels Press CH +/-.

(when watching TV programs through the VCR's tuner)

Press • (2 buttons simultaneously). To record

Press . To play To stop Press ... To fast forward Press -To rewind the tape Press -4. To pause Press II.

To search the picture Press >> or << during playback.

forward and backward

Operating a Video Disc Player

To play Press . Press M. To stop To pause Press II.

To resume normal playback, press again.

*This function is effective only for CAV (standardplay disc). With CLV (extended-play disc), the TV will go into the standby mode if II is pressed.

To search the picture Keep pressing ▶▶ or ◄◄ during playback. forward and backward To resume normal playback, release the button.

To return to the normal acreen Press MENU.

. Manufacturer .	Code number
SONY	01, 02, 03, 04
CANON	05
EMERSON	22, 30, 33
FISHER	10, 11, 12, 15
FUNAI	29
GENERAL ELECTRIC	05, 08
GOLDSTAR	25
HITACHI	07, 08
JVC	16
MAGNAVOX	05, 06, 09
MITSUBISHI	18, 19, 26, 27
MULTITECH	29
NEC	16, 23, 50
PANASONIC	05, 06
PHILCO	05, 06
PHILIPS	05, 06, 09
QUASAR	05, 06
RCA	07, 08
SAMSUNG	24, 32
SANYO	11, 15
SCOTT	21
SHARP	13, 14
SHINTOM	34
SYLVANIA	05, 06, 09
SYMPHONIC	29
TEKNIKA	28, 29
TOSHIBA	20, 21
TOTE VISION	25
ZENITH	17

The code numbers for Sony equipment are assigned as follows:

01 Beta, ED Beta VCR

02 8 mm VCR

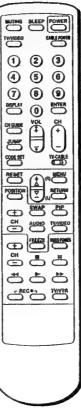
03 VHS VCR

04 Video disc player

- . If more than one code number is listed for manufacturers other than Sony, try entering them one by one, until you come to the correct code for your equipment.
- . If the video equipment does not have a certain function, the corresponding button on this Remote Commander will not operate.
- . In some rare cases, you may not be able to operate your non-Sony video equipment with the supplied Remote Commander. This is because your equipment may use a code that is not provided with this Remote Commander. In this case, please use the equipment's own remote control unit.

CAUTION

When you remove the batteries from the Remote Commander, all the settings will revert to the Sony Beta setting. Reset the codes by following the steps on p. 55.



RM-Y118

Manufactures and Code Numbers (cable box)

MANUFACTURER	CODE
JERROLD	60, 61, 62, 63, 64, 65
PIONEER	69, 70
SCIENTIFIC ATLANTA	66, 67
TOCOM	71,72
ZENITH	68

Operating a Cable Converter Box

Follow these instructions to set the manufacturer's code which will enable you to operate a connected cable converter box with the pre-programmed Remote Commander.

EXAMPLE: Operate a connected Zenith cable converter box.

Set the TV/CABLE selector to CABLE.



- . If more than one code number is fisted, try entering them one by one until you come to the correct code for your equipment.
- . If you enter a new code number, the code number you previously entered at that setting is
- . In some rare cases, your equipment may use a code that is not provided with this Remote Commander and you may not be able to operate your cable converter box with the supplied Remote Commander. In this case, use the equipment's own remote control

■ While pressing CODE SET, press 8 and 8 (Zenith's code number -see chart below) and ENTER.



A long beep sounds, indicating that the code has been set.

If you press a wrong code or if the code has not been set, four short beeps sound. Repeat step 2 to set the code.

Use CABLE POWER and the TV control buttons (0 – 9, ENTER, JUMP and CH +/-) to operate the cable converter box.



To operate the TV

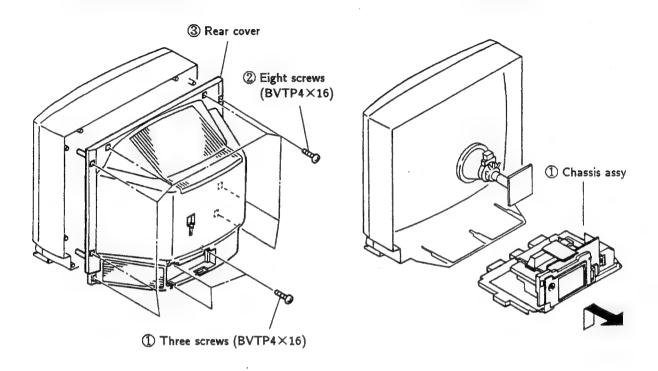
Set the TV/CABLE selector to TV, then use the TV control buttons to control the

For more details on operating the cable box Refer to the operating instructions that come with the cable box.

SECTION 2 DISASSEMBLY

2-1. REAR COVER REMOVAL

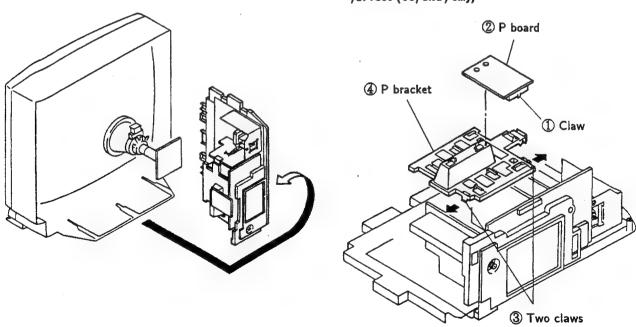
2-2. CHASSIS ASSY REMOVAL



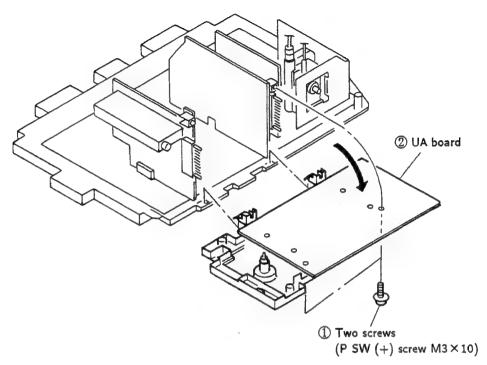
2-3. SERVICE POSITION

2-4. P BOARD AND P BRACKET REMOVAL

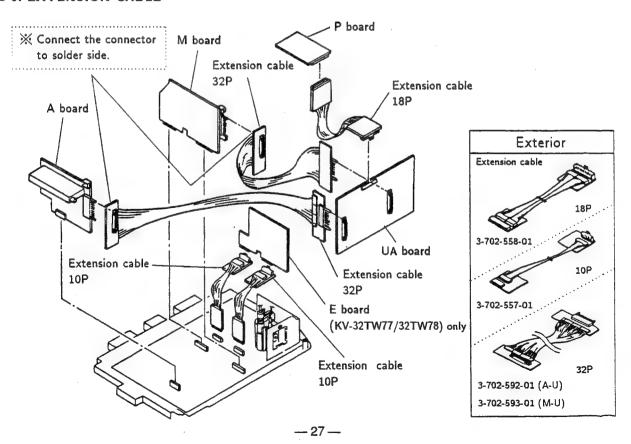
(KV-32TS46 (UC/CND)/32TS36 (US/CND) /27TS36 (US/CND) only)



2-5. UA BOARD REMOVAL

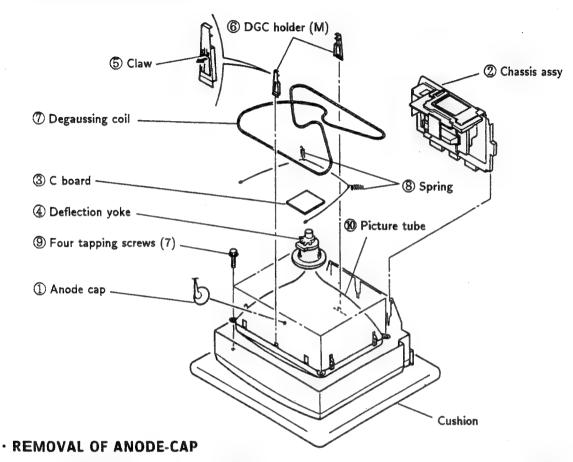


2-6. EXTENSION CABLE



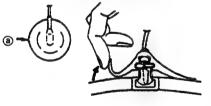
2-7. PICTURE TUBE REMOVAL (1)

(KV-27TS36 (US/CND)/27TS32/27TS29 (US/CND) only)



NOTE: Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT chield or carbon painted on the CRT, after removing the anode.

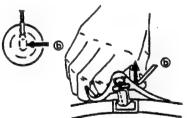
REMOVING PROCEDURES



Turn up one side of the rubber cap in the direction indicated by the arrow a.

· HOW TO HANDLE AN ANODE-CAP

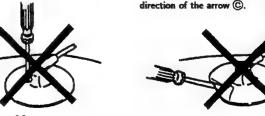
- Don't hurt the surface of anode-caps with sharp shaped material!
- Don't press the rubber hardly not to hurt inside of anode-caps! A material fitting called as shatter-hook terminal is built in the rubber.
- Don't turn the foot of rubber over hardly! The shatter-hook terminal will stick out or hurt the rubber.



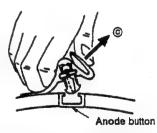
Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow (b).



3 When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow ©.

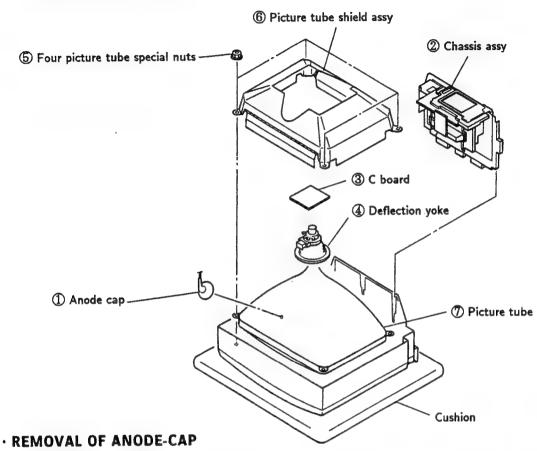






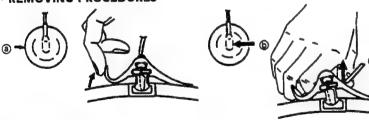
2-7. PICTURE TUBE REMOVAL (2)

(KV-32TS46 (US/CND)/32TS36 (US/CND) only)



NOTE: Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT chield or carbon painted on the CRT, after removing the anode.

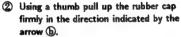
REMOVING PROCEDURES



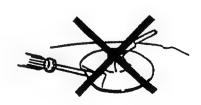
1 Turn up one side of the rubber cap in the direction indicated by the arrow @.

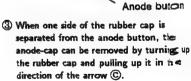
· HOW TO HANDLE AN ANODE-CAP

- Don't hurt the surface of anode-caps with sharp shaped material!
- Don't press the rubber hardly not to hurt inside of anode-caps! A material fitting called as shatter-hook terminal is built in the rubber.
- Don't turn the foot of rubber over hardly! The shatter-hook terminal will stick out or hurt the rubber.









2-8. REPAIR OF CHIP COMPONENT CIRCUIT BOARD

2-8-1. POINTS OF COMPONENT REMOVAL

Handing of blower type soldering iron

If hot blast is too strong or applied from a slanting direction, small components and solder near the component being removed can be blown off. Do not use blower type without temperature control.

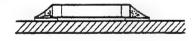
2-8-2. NOTES ON SOLDERING FOR CHIP COMPONENTS

- During soldering a chip component, if a soldering iron is applied for a long time, the heat may damage the component or cause pattern peeling.
- Do not reuse a removed component. The characteristics of such a component may deteriorate.
- 3) Use wire solder containing silver (\$\phi\$ 0.3 or \$\phi\$ 0.6). (The pin electrodes of the laminated chip capacitor are silver +palladium, so if wire solder which does not contain silver is used, the silver of the pin electrode will be sucked into the solder.)

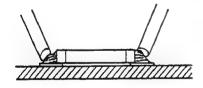
2-8-3. REMOVAL AND MOUNTING OF COMPONENTS Chip resistor and chip capacitor

REMOVAL

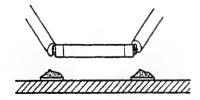
- · Using two soldering irons
- 1) Mounted state



2) Melt the solder.

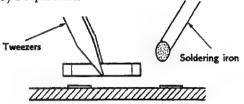


3) Remove the component.



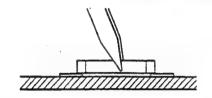
SOLDERING

1) Preparation

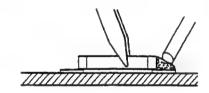


2) Location

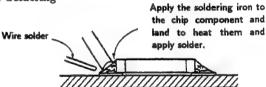
Be careful not to misposition.



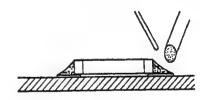
3) Tack soldering and flux application



4) Soldering



5) Soldering (Fix the fillet.)



6) Visual inspection

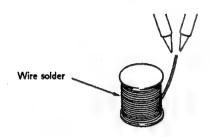
Check for the following defects:

- · No-soldered part
- · Bridge (to other components or lands)
- · Mispositioning
- Other defects

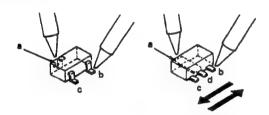
2-8-4. MINI-TRANSISTOR

REMOVAL

- · Using two soldering irons
- 1) Put a little solder on the tip of two soldering irons.

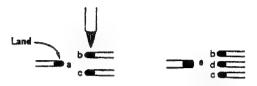


2) Apply the tip of one soldering iron to the point "a" and the other to the points "b" → "c" (or "b" → "d" → "c") and move the component in the directions indicated by arrows in the figure to remove it.

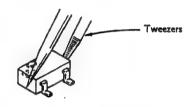


MOUNTING

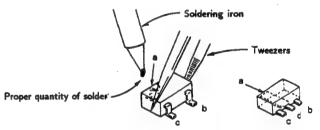
1) Apply a little flux to the land with a brush.



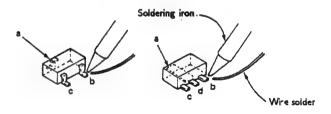
2) Place the component in position using tweezers.



3) Put a little solder on the tip of the soldering iron and solder the point "a" to fix the component.



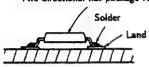
4) Bring the tip of the soldering iron and the wire solder close to the point to be soldered. Solder the points "b" → "c" (or "b" → "d" → "c") in order.

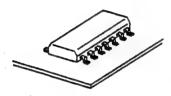


2-8-5. TWO-DIRECTIONAL FLAT PACKAGE IC

MOUNT CONDITION

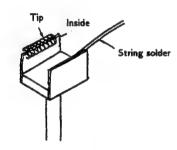
Two-directional flat package IC



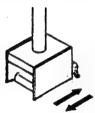


REMOVAL

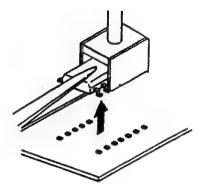
1) Apply some solder on the inside and the tip of the iron tip jig.



2) Place the iron tip jig over the IC, and move the jig to and fro as shown in the figure.



3) When the solder melts, lift the IC with a pair of tweezers and remove.



INSTALLATION

1) Place the two-directional flat package IC at the appointed position, solder pins a and b on the diagonal, and fasten it.

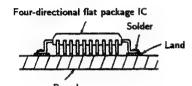


2) Solder the remaining pins with the soldering iron.



2-8-6. FOUR-DIRECTIONAL FLAT PACKAGE IC

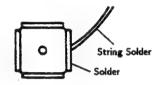
MOUNT CONDITION



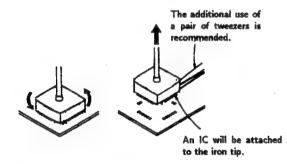


REMOVAL

1) Apply solder on the tip of the iron tip jig.



2) Place the iron tip jig over the IC, wait about two to three seconds, rotate the iron slightly and lift it up.



Note: For flat ICs of above 52P, the IC may not be completely attracted when the iron tip jig is lifted up. In these cases, use a pair of tweezers to remove.

INSTALLATION

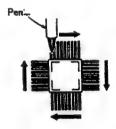
1) Place the four-directional flat package IC at the appointed position.



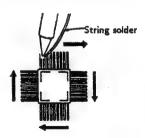
 Apply a slight amount of solder on the iron tip, and solder the three sections in the order of a → b → c, and fix.



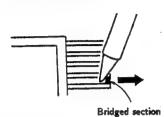
3) Apply a slight amount of flux with a pen on all four directions.



4) Apply solder on the iron tip and the string solder, and slide and solder in the directions of the arrows.

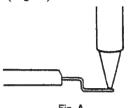


Note: 1) After soldering, if there are bridged sections, correct by sliding the soldering iron in the direction of the arrow.



If the bridges cannot be corrected using the above method, apply some flux with a pen and try again.

2) Soldering can be carried out more easily by sliding the iron tip near the tip of the IC leg. (Fig. A)



Be careful not to slide the bent sections of the leg as shown in Fig. B as soldering bridges will be formed.

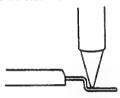


Fig. B

Exterior	Description	Part No.	Measure (mm)			
LATERIOI	Description	1 470 140.	Α	В	С	D
A B D C	jig for removing 4-sided flat package IC	3-702-554-01 " 11 " 21 " 31 " 41 " 51	12.5 15.5 16.3 17.0 23.0 20.0	9.5 12.5 13.3 14.0 20.0 17.0	12.5 15.5 16.3 17.0 17.0 20.0	9.5 12.5 13.3 14.0 14.0 17.0
B	jig for removing 2-sided flat package IC	3-702-555-01 " 11 " 21 " 31 " 41	6.0 6.0 7.0 9.0 9.0	5.0 10.0 12.5 15.2 18.0		
	soldering iron	3-702-552-01	le	55W 60g length 210mm		
	soldering holder	3-702-553-01				

SECTION 3

SET-UP ADJUSTMENTS

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
- These adjustments should be performed with rated power supply voltage unless otherwise noted.

Controls and switch should be set as follows unless otherwise noted:

PICTURE control RESET BRIGHTNESS control center

Perform the adjustments in order as follows:

- 1. Beam Landing
- 2. Convergence
- 3. Focus
- 4. White Balance

Note: Test Equipment Required.

- 1. Color-bar/Pattern Generator
- 2. Degausser
- 3. Oscilloscope

Preparations:

- In order to reduce the influence of geomagnetism on the set's picture tube face it east or west.
- Switch on the set's power and degauss with the degausser.

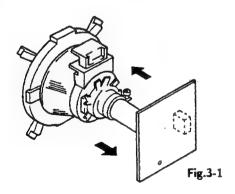
3-1. BEAM LANDING

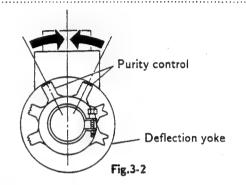
- Input the white signal with the pattern generator.
 Contrast
 Bightness

 normal
- 2. Set the pattern generator raster signal to green.
- Move the deflection yoke to the rear and adjust with the purity control so that the green is at the center and the blue and the red take up equally sized areas on each side.

(See Figures 3-1 through 3-3.)

- 4. Move the deflection yoke forward and adjust so that entire screen is green. (See Figure 3-1.)
- 5. Switch the raster signal to blue, then to red and verify the condition.
- When the position of the deflection yoke has been decided, fasten the deflection yoke with the screws.
- If the beam does not land correctly in all the corners, use a magnet to adjust it. (See Figure 3-4.)





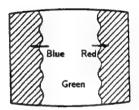
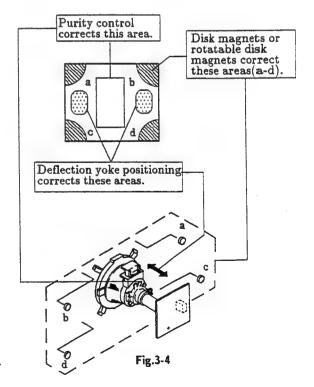


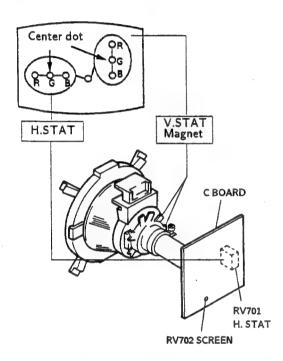
Fig.3-3



3-2. CONVERGENCE

Preparation:

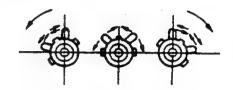
- Before starting this adjustment, adjust the focus, horizontal size, and vertical size.
- Minimize the brightness setting.
- Provide dot pattern.
- (1) Horizontal and Vertical Static Convergence



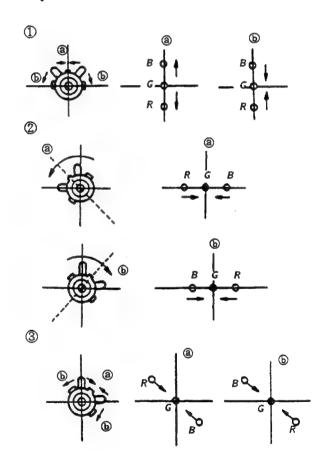
- (Moving horizontally), adjust the H.STAT control so that the red, green, and blue points are on top of each other at the center of the screen.
- (Moving vertically), adjust the V.STAT magnet so that the red, green, and blue points are on top of each other at the center of the screen.
- 3. If the H.STAT variable resistor cannot bring the red, green, and blue points together at the center of the screen, adjust the horizontal convergence with the H.STAT variable resistor and the V. STAT magnet in the manner given below.

(In this case, the H.STAT variable resistor and the V.STAT magnet influence each other)

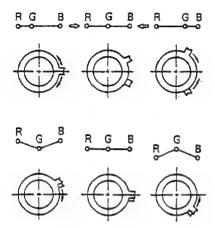
 Tilt the V.STAT magnet and adjust the static convergence by opening or closing the V.STAT magnet.



4. If the V.STAT magnet is moved in the direction of the (a) and (b) arrows, the red, green, and blue points move as shown below.



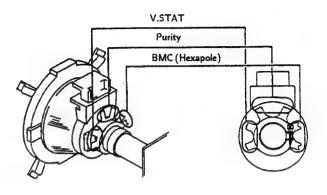
• Operation of BMC (Hexapole) Magnet



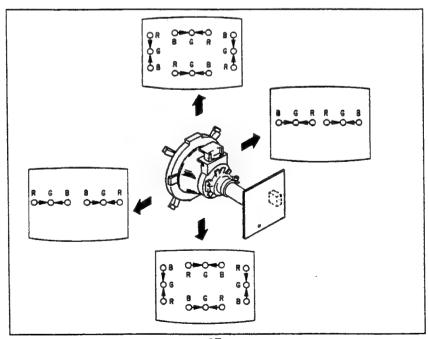
The respective dot positions resulting from moving each magnet interact, so be sure to perform adjustment while tracking.
Use the H.STAT VR to adjust the red, green, and blue dots so they coincide at the center of screen (by moving the dots in the horizontal direction).

(2) Dynamic Convergence Adjustment Preparations:

- Before starting this adjustment, adjust the horizontal static convergence and the vertical static convergence.
- 1. Slightly loosen the deflection yoke screws.
- 2. Remove the deflection yoke spacer.



- · Y separation axis correction magnet adjustment
- 1. Receive the cross-hatch signal, and adjust [PIX] to "MIN" and [BRT] to "standard".
- 2. Adjust the deflection yoke to the upright condition when it hits the CRT.
- 3. Adjust so that the Y separation axis correction magnet on the neck assembly is symmetrical at the top and bottom (open state).
- 4. Return the deflection yoke to its original position.
- Move the deflection yoke as shown in the figure below and optimize the convergence.
- 4. Tighten the deflection yoke screws.
- 5. Install the defelection yoke spacer.



(3) Dynamic Convergence Circuit Adjustment (32 inch only)

SERVICE MODE PROCEDURE

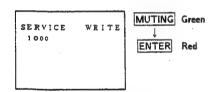
- 1. Standby mode. (Power off)
- DISPLAY → 5 → VOL (+) → POWER on the Remote Commander. (Press each button within a second.)

SERVICE ADJUSTMENT MODE IN

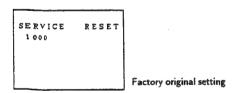


- 3. The CRT displays the item Being adjusted.
- 4. Press 1 or 4 on the Remote Commander to select the item.
- 5. Press 3 or 6 on the Remote Commander to change the data.
- 6. Press MUTING then ENTER to write into memory.

SERVICE ADJUSTMENT MODE MEMORY



7. Press 8 then ENTER on the Remote Commander to initialize.



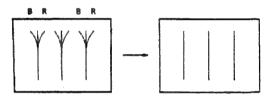
8. Turn set off and on to exit.

- · Set to Service Mode.
- · Input a cross-hatch signal.
- Press 1 and 4 serect an item of adjustments.
- Adjust 3 and 6 to the best picture.

No.	Disp.	ltem	Ave.Data
39	UYBO	Upper Y-Bow	31
40	LYBO	Lower Y-Bow	25
41	HAMP	H. Amp	33
42	HTIL	H. Tilt	33
43	UCBO	Upper C-Bow	38
44	UTIL	Upper Tilt	40
45	LCBO	Lower C-Bow	41
46	LTIL	Lower Tilt	46
47	DCSH	DC Shift	37

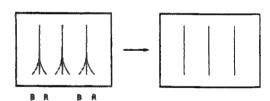
U. YBOW

Select UYBO with 1 and 4



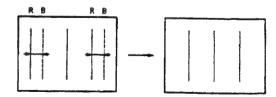
L. YBOW

Select LYBO with 1 and 4



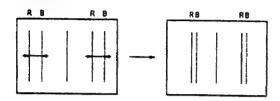
H. AMP

Select HAMP with 1 and 4



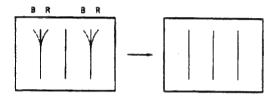
H. TILT

Select HTILT with 1 and 4



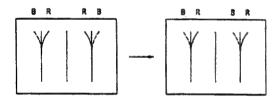
U. CBOW

Select UCBO with 1 and 4



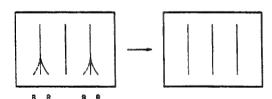
U. TILT

Select UTIL with 1 and 4



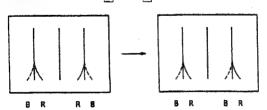
L. CBOW

Select LCBO with 1 and 4

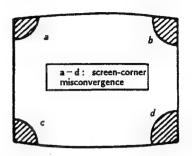


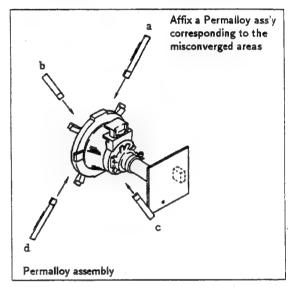
L. TILT

Select L. TIL with 1 and 4



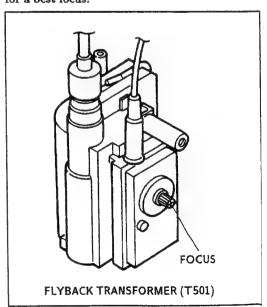
(4) Screen-corner Convergence





3-3. FOCUS ADJUSTMENT

Adjust FOCUS control on the flyback transformer for a best focus.



3-4. G2 (SCREEN) AND WHITE BALANCE ADJUSTMENTS

1. G 2 (SCREEN) ADJUSTMENT(RV 702)

- 1. Set the PICTURE and BRIGHTNESS to normal.
- 2. Confirm G 1 voltage is within 30.0 ± 5 V.
- Apply DC voltage of 180 V to the cathodes of R,G and B from DC stabilized power source.
- 4. While watching the picture, adjust the G2 control (RV 702) to the just the retrace line disappears.

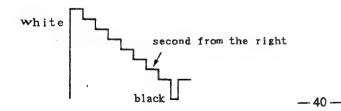
2. WHITE BALANCE ADJUSTMENTS

No.	Disp.	İtem	Ave. Data
14	GAMP	Green Amp	20
15	BAMP	Blue Amp	17
16	GCUT	Green Cut-off	7
17	BCUT	Blue Cut-off	8
22	SBRT	Sub Bright	35

- 1. Input an entire white signal.
- 2. Set to service adjustment mode.
- 3. Set the PICTURE and BRIGHT to minimum.
- 4. Adjust with SBRT if necessary.
- 5. Select G CUT and B CUT with 1 and 4.
- 6. Adjust with 3 and 6 for the best white balance.
- 7. Set the PICTURE and BRIGHT to maximum.
- 8. Select GAMP and BAMP with 1 and 4
- 9. Adjust with 3 and 6 for the best white balance.
- 10. Write into the memory by pressing MUTING then ENTER.

3. SUB BRIGHT ADJUSTMENT

- 1. Set to service mode.
- 2. Input a staircase signal of black and white from the pattern generator.
- 3. BRIGHTNESS ··· RESET PICTURE ······ minimum
- 4. Select SBRT with 1 and 4, and adjust SUB BRIGHT level with 3 and 6 so that the stripe second from the right is dimly lit.



SECTION 4 SAFETY RELATED ADJUSTMENTS

R511 CONFIRMATION METHOD (HOLD-DOWN CONFIRMATION) AND READJUSTMENTS

The following adjustments should always be performed when replacing the following components (marked with
☐ on the schematic diagram).
PM501. R338. R511, R632, R645, R650

1

- 1. Preparation before confirmation
- Remove R635 on the D board and connect a variable resistor (RV1: about 22kΩ)
 between pin ① of IC601 and B+ line.
- 2) Supply 130±2.0V AC to with variable auto-
- 2. Hold-down operation confirmation
- Turn the POWER switch ON, and receive entirely white signals and adjust ABL current to 1760±50μA with PICTURE and BRIGHT etc controls.
- 2) Increase B+ line voltage gradually by adjusting the resistor of RV1. Confirm that the minimum voltage is less than 142.5V DC (27 inch) 140.0V DC (32 inch) whereby the raster disappears during operation of hold-down circuit.

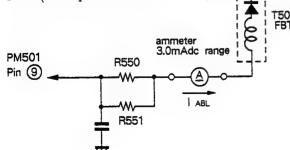
NOTE: When the hold-down circuit starts operating, switch OFF the POWER of the set immediately.

- Turn the POWER switch ON, and receive dot signals and adjust ABL current to 160±50μA with PICTURE and BRIGHT etc controls.
- 4) Increase B+ line voltage gradually by adjusting the resistor of RV1. Confirm that the minimum voltage is less than 145.0V DC (27 inch), 143.5V DC (32 inch) whereby the raster disappears during operation of hold-down circuit.

NOTE: When the hold-down circuit starts operating, switch OFF the POWER of the set immediately.

3. Hold-down readjustment

When step 2 is not satisfied, readjustment should be performed by altering the resistance value of R511 (a component marked with \blacksquare).



R524 CONFIRMATION METHOD (HOLD-DOWN CONFIRMATION) AND READJUSTMENTS

The following adjustments should always be performed when replacing the following components (marked with ☑ on the schematic diagram). IC601, PM501, D504, C598, R338, R509, R524, R632, R635, R645, T501

2

- 1. Preparation before confirmation
- Turn the POWER switch ON, and receive entirely white signals and set the PICTURE and BRIGHT controls to maximum.
- 2) Confirm that voltage of the check terminal of TP-85 (D BOARD) is more than 114.0V DC (27 inch) 122.3V DC (32inch) when the set is operating normally with 120.0±2.0V AC supply.
- 2. Hold-down operation confirmation
- 1) Turn the POWER switch ON, and receive entirely white signals and adjust ABL current to $1760 \pm 50 \mu A$ with PICTURE and BRIGHT etc controls.
- 2) Apply DC voltage of over 130.0V DC gradually to the check terminal of TP-85 (D BOARD) via 1T40 from the DC stabilized power source. Confirm that the minimum voltage is less than 137.5V DC (27inch) 143.5V DC (32inch) whereby the raster disappears during operation of hold-down circuit.

NOTE: When the hold-down circuit starts operating, switch OFF the POWER of the set immediately.

- Turn the POWER switch ON, and receive dot signals and adjust ABL current to 160±50μA with PICTURE and BRIGHT etc controls.
- 4) Apply DC voltage of over 130.0V gradually to the check terminal of TP-85 (D BOARD) via 1 T40 from the DC stabilized power source. Confirm that the minimum voltage is less than 138.0V DC (27inch) 144.1V DC (32inch) whereby the raster disappears during operation of hold-down circuit.

NOTE: When the hold-down circuit starts operating, switch OFF the POWER of the set immediately.

3. Hold-down readjustment

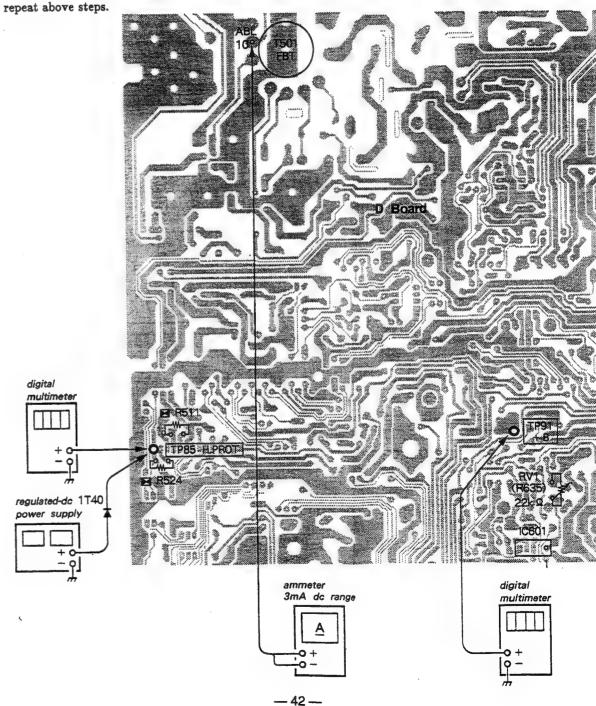
When step 2 is not satisfied, readjustment should be performed by altering the resistance value of R524 (a component marked with \blacksquare).

B+ VOLTAGE CONFIRMATION

The following adjustments should always be performed when replacing IC601 and R635.

- 1) Supply $130 \pm {}^{20}_{0.0}$ V AC to with variable autotransformer.
- 2) Receive entirely monoscope signal.
- Set the PICTURE control and the BRIGHT controls in to initial reset.
- 4) Confirm the voltage of TP91 is less than 137.0V DC.

5) If step 4) is not satisfied, replace IC601 and R635



SECTION 5 CIRCUIT ADJUSTMENTS

KV-27TS29/27TS32/27TS36 RM-Y116 RM-Y117 RM-Y118 KV-32TS36/32TS46

KV-27TS29/27TS32/27TS36 RM-Y116 RM-Y117 RM-Y118 KV-32TS36/32TS46 RM-Y118 RM-Y118 SA-W200

5-1. ELECTRICAL ADJUSTMENT BY REMOTE COMMANDER

Use of Remote Commander can be performed circuit adjustments about this model.

NOTE: Test Equipment Required.

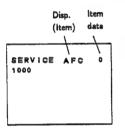
- 1. Pattern Generator
- 2. Frequency counter
- 3. Digital multimeter
- 4. Audio OSC

1. METHOD OF SETTING THE SERVICE ADJUSTMENT MODE

SERVICE MODE PROCEDURE

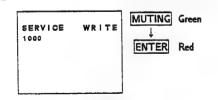
- 1. Standby mode. (Power off)
- 2. $\overline{\text{DISPLAY}} \rightarrow 5 \rightarrow \overline{\text{VOL}} (+) \rightarrow \overline{\text{POWER}}$ on the Remote Commander. (Press each button within a second.)

SERVICE ADJUSTMENT MODE IN

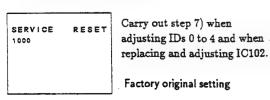


- 3. The CRT displays the item Being adjusted.
- 4. Press 1 or 4 on the Remote Commander to select
- 5. Press 3 or 6 on the Remote Commander to change the data.
- 6. Press MUTING then ENTER to write into memory.

SERVICE ADJUSTMENT MODE MEMORY



7. Press 8 then ENTER on the Remote Commander to initialize.

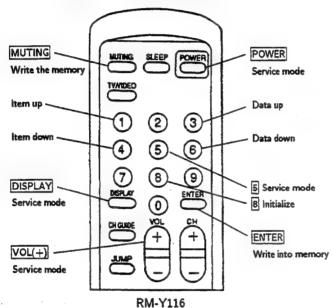


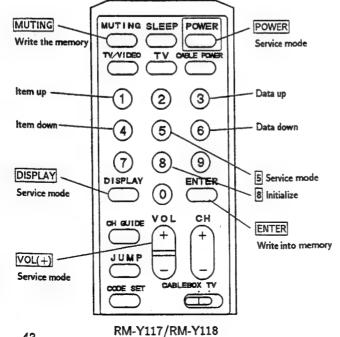
8. Turn set off and on to exit.

2. MEMORY WRITE CONFIRMATION METHOD

- 1. After adjustment, pull out the plug from AC outlet, and next place, plug in AC outlet again.
- 2. Turn the power switch ON and set to Service
- 3. Call the adjusted items again, confirm they were adjusted.

3. ADJUST BUTTONS AND INDICATOR





-43-

4. AN ITEM OF ADJUSTMENTS

AFC	No.	Disp.	İtem	Data range	Ave. data (27 inch)	Ave. data (32 inch)
HFRE H. Frequency 0~127 70 70		AFC	AFC Loop Gain	0~3		* 0
VFRE	2			0~127	70	70
VPOS V. Center V-31 17 17 17 17 17 17 17		VFRE		0~31	16	16
VIN		VPOS		0~31	17	17
VSCO			V. Size	0~63	28	
## HPOS H. Center H. Size 0~31 31 27			V. Linearity	0~15	8	
9		VSCO	V. Correction		- 1	
PAMP	- 1		H. Center		- 1	
11			H. Size			
12 PPHA Pin Phase V. Compensation 0~7 *2 *2 *2 *2 *2 *2 *2 *			•			
13						
14 GAMP Green Amp D-31 D0 D1						
15 BAMP Blue Amp 0~31 17 17 17 17 17 17 BCUT Blue Cut Off 0~15 7 7 7 18 CROM Chroma Trap 0~63 *28 *28 *28 19 SPIX Sub Contrast 0~63 33 33 33 33 32 SCOL Sub Color 0~63 32 32 32 SEMT Sub Bright 0~63 35 35 35 35 35 35 35			•			
16 GCUT Green Cut Off 0~15 7 7 7 8 8 8 8 8 18 6 CROM Chroma Trap 0~63 20 20 20 20 20 5 5 5 5 5 5 5 5 5			•			
SCUT SCUT Size Cut Off O~15 Size						
18						
19 SPIX Sub Contrast 0~63 20 20 20 20 SHUE Sub Hue 0~63 33 33 33 33 32 32 32					-	
SHUE Sub Hue O-63 33 33 32 32 32 32 32						
SCOL Sub Color 0~63 32 32 32 32 33 35 35 3			\$			
SBRT Sub Bright O-63 35 35 35 35 RGBP RGB Picture O-63 *10 *						
RGBP RGB Picture 0~63 *10 *10						
24 SHAP						
25						
26 REF Refference line 0~3 *2 *2 27 ROFF Red Out 0,1 1 1 28 GOFF Green Out 0,1 1 1 29 BOFF Blue Out 0,1 1 1 30 ABLM ABL Mode 0,1 *0 *0 31 NOTC Notch On/Off 0,1 *1 *1 32 DRGB OSD intensity 0,1 *0 *0 33 VANG V. Angle 0~63 0 0 34 DISP Display Position 0~63 40 40 35 SVOL Sub Volume 0~15 *0 *0 36 SBAL Sub Balance 0~15 *7 7 37 BASS Sub Bass 0~15 *7 *7 38 TRE Sub Treble 0~15 *7 *7 40 LYBO Lymor P. Bow </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
27						
28 GOFF Green Out 0,1 1 1 1 1 30 ABLM ABL Mode 0,1 *0 *0 *0 31 NOTC Notch On/Off 0,1 *1 *1 *1 32 DRGB OSD intensity 0,1 *0 *0 *0 33 VANG V. Angle 0~63 0 0 0 35 SVOL Sub Volume 0~15 *0 *0 *0 36 SBAL Sub Balance 0~15 *0 *0 *0 36 SBAL Sub Balance 0~15 *7 7 7 7 7 7 7 7 7		ROFF		. ,	_	
29 BOFF Blue Out 0, 1 1 1 1 30 ABLM ABL Mode 0, 1 *0 *0 *0 31 NOTC Notch On/Off 0, 1 *1 *1 *1 32 DRGB OSD intensity 0, 1 *0 *0 *0 33 VANG V. Angle 0~63 0 0 0 0 35 SVOL Sub Volume 0~15 *0 *0 *0 36 SBAL Sub Balance 0~15 7 7 7 7 8ASS Sub Bass 0~15 *8 *8 *8 8 8 8 8 8 8	28	GOFF				
NOTC Notch On/Off 0,1	29	BOFF	Blue Out		1	
32 DRGB OSD intensity O, 1 * 0 * 0			ABL Mode	0, 1	* 0	
33			Notch On/Off	0, 1		*1
34					-	l .
35 SVOL Sub Volume 0~15 * 0 * 0 36 SBAL Sub Balance 0~15 7 7 7 7 7 7 7 7 7		1		4 1		-
36 SBAL Sub Balance 0~15 7 7 37 BASS Sub Bass 0~15 *8 *8 38 TRE Sub Treble 0~15 *7 *7 39 UYBO Upper Y. Bow 0~63 — 31 40 LYBO Lower Y. Bow 0~63 — 25 41 HAMP H. Amp 0~63 — 33 42 HTIL H. Tilt 0~63 — 33 43 UCBO Upper C. Bow 0~63 — 38 44 UTIL Upper Tilt 0~63 — 40 45 LCBO Lower C. Bow 0~63 — 41 47 DCSH Lower Tilt 0~63 — 46 47 DCSH DC. Shift 0~63 — 46 48 PHPO PinP Hue 0~127 76 76 50 ID-0 Model ID 0~127<						
37 BASS TRE Sub Bass TRE Sub Treble 0~15 *8 *8 38 TRE Sub Treble 0~15 *7 *7 39 UYBO LYBO Upper Y. Bow 0~63 — 31 40 LYBO Lower Y. Bow 0~63 — 25 41 HAMP H. Amp 0~63 — 33 42 HTIL H. Tilt 0~63 — 33 43 UCBO Upper C. Bow 0~63 — 38 44 UTIL Lower Tilt 0~63 — 40 45 LCBO Lower C. Bow 0~63 — 41 Lower Tilt 0~63 — 46 DC. Shift 0~63 — 37 PHOE PinP H Position 0~127 76 76 76 PinP Hue 0~31 * 0 * 0 50 ID-0 Model ID 0~127 by Model by Model by Model 51 ID-1 Model ID 0~127 by Model by Model by Model <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td></t<>						
38 TRE Sub Treble 0~15 *7 *7 39 UYBO Upper Y. Bow 0~63 — 31 40 LYBO Lower Y. Bow 0~63 — 25 41 HAMP H. Amp 0~63 — 33 42 HTIL H. Tilt 0~63 — 33 43 UCBO Upper C. Bow 0~63 — 38 44 UTIL Upper Tilt 0~63 — 40 45 LCBO Lower C. Bow 0~63 — 41 Lower Tilt 0~63 — 46 HTIL Lower Tilt 0~63 — 46 47 DCSH DC. Shift 0~63 — 37 48 PHPO PinP H Position 0~127 76 76 49 PHUE PinP Hue 0~127 by Model by Model 50 ID-0 Model ID 0~127 by Model <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<>						
39						
40					- 1	
HAMP H. Amp 0~63 — 33 33 33 343 UCBO Upper C. Bow 0~63 — 38 38 38 38 38 38 38	1				_	
42	1				_	
43 UCBO Upper C. Bow 0~63 — 38 44 UTIL Upper Tilt 0~63 — 40 40 45 LCBO Lower C. Bow 0~63 — 41 46 LTIL Lower Tilt 0~63 — 46 47 DCSH DC. Shift 0~63 — 37 48 PHPO PinP H Position 0~127 76 76 76 PHUE PinP Hue 0~31 * 0 * 0 * 0 10-0 Model ID 0~127 by Model by Model 51 ID-1 Model ID 0~127 by Model by Model 52 ID-2 Model ID 0~127 by Model by Model ID-3 Model ID 0~127 by Model by Model by Model ID-3 Model ID 0~127 by Model by Model by Model ID-3 Model ID 0~127 by Model by Model by Model ID-3 Model ID 0~127 by Model by Model ID-3 ID-3 Model ID 0~127 by Model by Model ID-3	1					
44 UTIL Upper Tilt 0~63 - 40 40 45 LCBO Lower C. Bow 0~63 - 41 46 LTIL Lower Tilt 0~63 - 46 47 DCSH DC. Shift 0~63 - 37 48 PHPO PinP H Position 0~127 76 76 76 76 PinP Hue 0~31 * 0 * 0 * 0 10-0 Model ID 0~127 by Model by Model 51 ID-1 Model ID 0~127 by Model by Model 52 ID-2 Model ID 0~127 by Model by Model 53 ID-3 Model ID 0~127 by Model by Model 54 ID-3 Model ID 0~127 by Model by Model 55 ID-3 Model ID 0~127 by Model by Model 55 ID-3 Model ID 0~127 by Model by Model 55 ID-3 Model ID 0~127 by Model by Model 55 ID-3 Model ID 0~127 by Model by Model 55 ID-3 Model ID 0~127 by Model by Model 55 ID-3 Model ID 0~127 by Model by Model 55 ID-3			1		_	
45 LCBO Lower C. Bow 0~63 — 41 46 LTIL Lower Tilt 0~63 — 46 47 DCSH DC. Shift 0~63 — 37 48 PHPO PinP H Position 0~127 76 76 76 49 PHUE PinP Hue 0~31 * 0 * 0 * 0 10-0 Model ID 0~127 by Model by Model 51 ID-1 Model ID 0~127 by Model by Model 52 ID-2 Model ID 0~127 by Model by Model 53 ID-3 Model ID 0~127 by Model by Model 54 Model ID 0~127 by Model by Model 54 Model ID 0~127 by Model by Model 55 ID-3 Model ID 0~127 by Model by Model 54 Model ID 0~127 by Model by Model 55 ID-3 Model ID 0~127 by Model by Model 55 ID-3 Model ID 0~127 by Model by Model 55 ID-3 Model ID 0~127 by Model by Model 55 ID-3 Model ID 0~127 by Model by Model 55 ID-3 ID-		UTIL			_	I
47 DCSH PHPO PinP H Position 0~63 — 37 76 76 76 76 76 76 76	45	LCBO		0~63	_	41
47 DCSH DC. Shift 0~63 - 37 76 76 76 76 76 76 76		1		0~63	_	46
49	1			0~63	_	37
10-0	1					
51 ID-1 Model ID 0~127 by Model by Model 52 ID-2 Model ID 0~127 by Model by Model by Model ID-2 Model ID 0~127 by Model by Model ID-2 Model ID 0~127 by Model by Model 53 ID-3 Model ID 0~127 by Model by Model by Model		1				
52 ID-2 Model ID 0~127 by Model by Model by Model ID-2 Model ID 0~127 by Model by Model by Model ID-2 Model ID 0~127 by Model by Model 53 ID-3 Model ID 0~127 by Model by Model	1				, ,	
ID-2 Model ID 0~127 by Model by Model ID-2 Model ID 0~127 by Model by Model 53 ID-3 Model ID 0~127 by Model by Model by Model			1			
ID-2 Model ID 0~127 by Model by Model 53 ID-3 Model ID 0~127 by Model by Model	52	1				1
53 ID-3 Model ID 0~127 by Model by Model		10-2		1		*
inode to	E2		1.			1
Model ID 0~12/ by Model by Model	1	1				
		1.5-4	Model ID	0-121	by Wodel	by wodel

* : Set-up value

Note: No.from 1 to 54 is to show adjusment order.

SERVICE	ID 0 64
1000	1000000

Please adjust the function values as shown below when IC 102 on M board was replaced.

KV-27TS29 (US)

No.	Disp.			[Data				
50 51 52 53 54	ID-0 ID-1 ID-2 ID-3 ID-4	1 1 0 0	0 1 0 0	0 1 0 0	0 1 0 0	0 1 0 0	0 1 0 0	0 1 0 0 0	64 127 64 0 16

KV-27TS29 (CND)

No.	Disp.			[Disį	٥.			Data
50 51 52 53 54	ID-0 ID-1 ID-2 ID-3 ID-4	1 1 0 0	0 1 0 0	0 1 0 0 1	0 1 0 0	0 1 0 0 0	0 1 0 0	0 1 0 0	64 127 0 0 16

KV-27TS32 (US)

No.	Disp.		Disp.						Data
50 51	ID-0 ID-1	1	1	1	1	1	1	0	120 127
52 53 54	ID-2 ID-3 ID-4	0 0		0 0 1		-	0 0	000	104 0 16

KV-27TS36/32TS36 (US)

No.	Disp.	Disp.						Data	
50 51 52 53 54	ID-0 ID-1 ID-2 ID-3 ID-4	1 1 1 1 0	1 0 0 0	1 1 0 0	1 1 1 0 0	0 1 0 0	0 1 0 0	0 1 0 0	120 127 72 64 16

KV-27TS36/32TS36 (CND)

No.	Disp.			[Disp).			Data
50 51 52 53 54	ID-0 ID-1 ID-2 ID-3 ID-4	1 1 0 1	1 1 0 0	1 1 0 0	1 1 1 0	0 1 0 0	0 1 0 0	0 1 0 0	120 127 8 64 16

KV-32TS46 (US)

No.	Disp.			I	Data				
50 51 52 53 54	ID-0 ID-1 ID-2 ID-3 ID-4	1 1 1 0 0	1 1 0 1	1 1 0 0	1 1 1 0 0	0 1 0 1 0	0 1 0 0	0 1 0 0	120 127 72 36 16

KV-32TS46 (CND)

No.	Disp.	Disp.						Data	
50 51 52 53 54	ID-0 ID-1 ID-2 ID-3 ID-4	1 1 0 0	1 0 1 0	1 1 0 0	1 1 1 0 0	0 1 0 1	0 1 0 0	0 1 0 0	120 127 8 36 16

5-2. M BOARD ADJUSTMENTS

H.FREQUENCY ADJUSTMENT (HFRE)

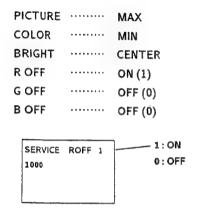
- 1. Input a color-bar signal.
- 2. Set to Service adjustment Mode.
- 3. Connect a frequency counter to CN131 Pin⁽³⁾ (H. DRIVE) connector and ground.
- 4. Call the item of AFC, set to 3 level (free run).
- 5. Select HFRE with 1 and 4.
- 6. Adjust with 3 and 6 for the 15734 ± 60 Hz.
- 7. Call the item of AFC again, adjust the level" 0".
- 8. Write into the memory by pressing MUTING then ENTER.

V.FREQUENCY ADJUSTMENT (VFRE)

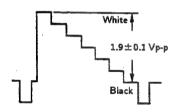
- 1. Select video 1 with no connecting the signal.
- 2. Set to Service adjustment Mode.
- Connect the frequency counter across connectorCN131 Pin (V. DRIVE) connector and ground.
- 4. Select VFRE with 1 and 4.
- 5. Adjust with 3 and 6 for the 55 ± 0.5 Hz.
- 6. Write the memory by pressing MUTING then ENTER.

SUB CONTRAST ADJUSTMENT (SPIX)

- 1. Input a color-bar signal.
- 2. Set to Service adjustment Mode.
- 3. Set the conditions as follows.



- Connect an oscilloscope to CN703 Pin① (R OUT) of C board and ground.
- 5. Select SPIX with 1 and 4.
- 6. Adjust with 3 and 6 for the 1.9 ± 0.1 Vp-p.

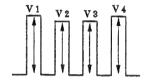


- 7. Write the memory by pressing MUTING then ENTER.
- 8. Return the following back to normal after adjustment.

PICTURE		MAX
BRIGHT	•••••	CENTER
COLOR	•••••	CENTER
R OFF	•••••	ON
G OFF	•••••	ON
B OFF	•••••	ON

SUB HUE, SUB COLOR ADJUSTMENT (SHUE, SCOL)

- 1. Input a color-bar signal.
- 2. Set to service adjustment mode.
- 3. Connect an oscilloscope to CN703 Pin(3) (B OUT) of C board.
- 4. Select SHUE and SCOL with 1 and 4.
- 5. Adjust with 3 and 6 for the V1=V4 (SCOR) and V2 =V3 (SHUE).



- 6. Increase the data of SCOL by 5 steps.
- 7. Write into the memory by pressing MUTING then ENTER.

SUB BARANCE ADJUSTMENT (SBAL)

- 1. Input a stereo signal.
- 2. Set to service adjustment mode.
- 3. Select SBAL with 1 and 4.
- 4. Adjust with 3 and 6 for the best sound balance
- 5. Write into the memory by pressing MUTING then ENTER.

DISPLAY POSITION ADJUSTMENT (DISP)

- 1. Input a color-bar signal.
- 2. Set to service adjustment Mode.
- 3. Select DISP with 1 and 4.
- 4. Adjust with 3 and 6 for the bar center.
- 5. Write the memory by pressing MUTING then ENTER.

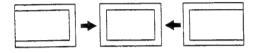


H.CENTER ADJUSTMENT (H POS)

Note: Perform this adjustment after H.FREQUENCY ADJUSTMENT (HFRE).

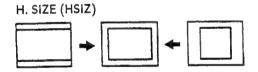
- 1. Input a cross-hatch signal.
- 2. Set the Service adjustment mode.
- 3. Select HPOS with 1 and 4.
- 4. Adjust with 3 and 6 to the best horizontal center.
- 5. Write into the memory by pressing MUTING then ENTER.

H. CENTER (HPOS)



H.SIZE ADJUSTMENT (HSIZ)

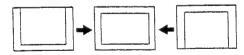
- 1. Input a cross-hatch signal.
- 2. Set to service adjustment Mode.
- 3. Select HSIZ with 1 and 4.
- 4. Adjust with 3 and 6 for best horizontal size.
- 5. Write into the memory by pressing MUTING then ENTER.



V.CENTER ADJUSTMENT (VPOS)

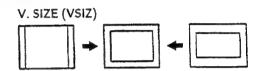
- 1. Input a cross-hatch signal.
- 2. Set to service adjustment Mode.
- 3. Select VPOS with 1 and 4.
- 4. Adjust with 3 and 6 for the best vertical senter.
- 5. Write into the memory by pressing MUTING then ENTER.





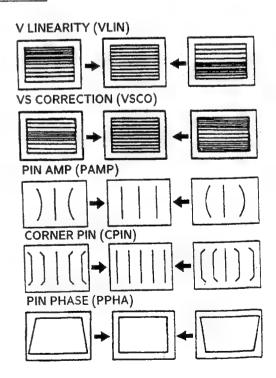
V.SIZE ADJUSTMENT (VSIZ)

- 1. Input a cross-hatch signal.
- 2. Set to service adjustment Mode.
- 3. Select VSIZ with 1 and 4.
- 4. Adjust with 3 and 6 for the best vertical size.
- 5. Write into the memory by pressing MUTING then ENTER.



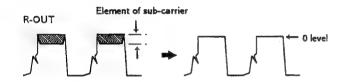
V LINEARITY(VLIN), VS CORRECTION(VSCO), PIN AMP(PAMP), CORNER PIN(CPIN), AND PIN PHASE(PPHA) ADJUSTMENTS

- 1. Input a cross-hatch signal.
- 2. Set to Service adjustment Mode.
- 3. Select VLIN, VSCO, PAMP, CPIN, and PPHA with and 4.
- 4. Adjust with 3 and 6 for the best picture.
- 5. Write the memory by Pressing MUTING then ENTER.



CROMA TRAP ADJUSTMENT (CROM)

- 1. Input a red signal
- 2. Set to Service adjustment Mode.
- 3. Connect an oscilloscope CN703 Pin① (R OUT) of C board ground.
- 4. Select CROM with 1 and 4.
- 5. Adjust with 3 and 6 for the 0 level.

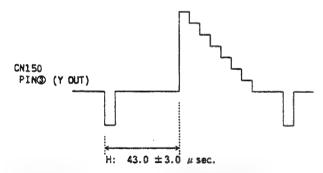


6. Write the memory by pressing MUTING then ENTER.

5-3. P BOARD ADJUSTMENTS

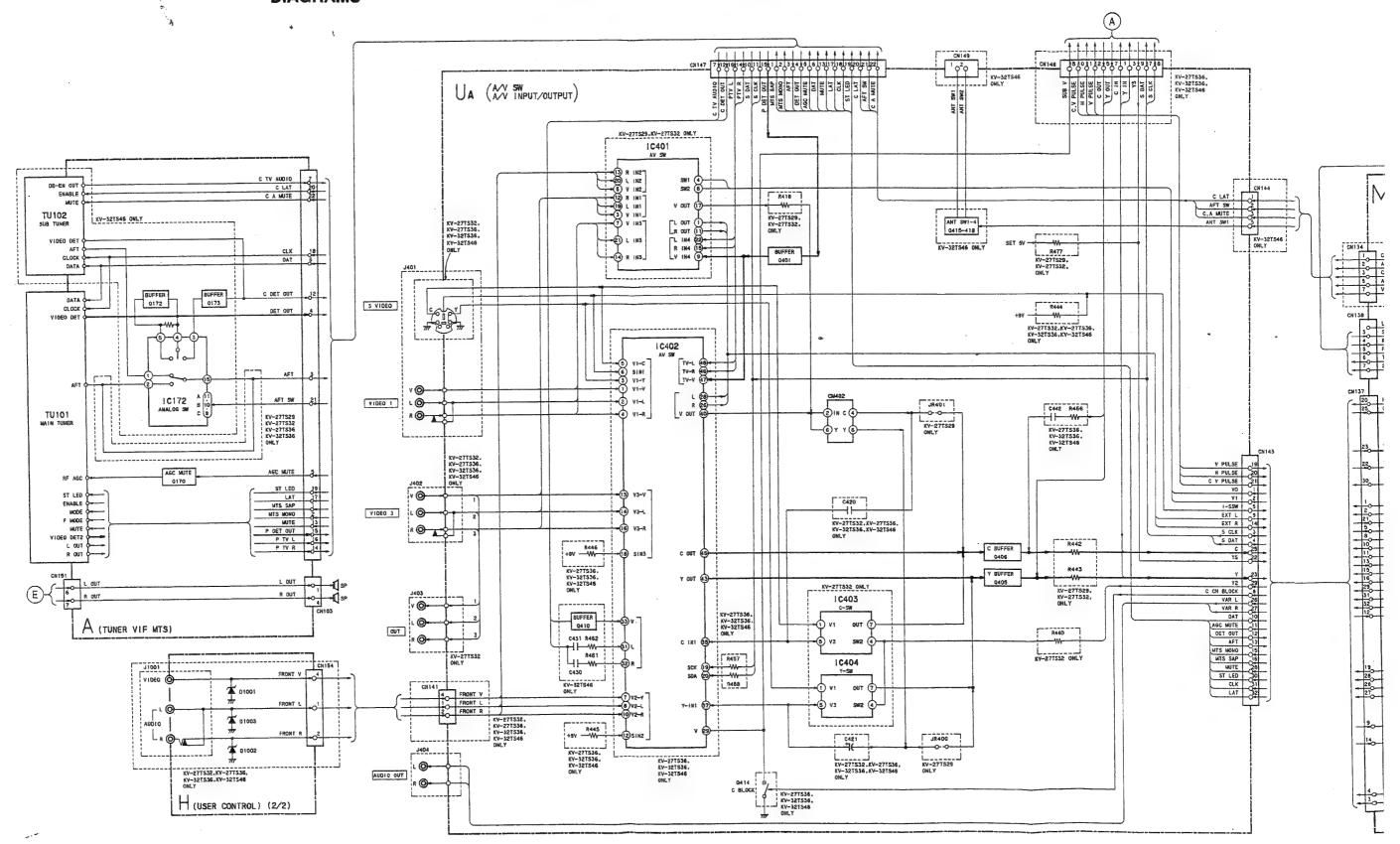
P IN P H. POSITION (PHPO)

- 1. Input a color-bar signal
- 2. Set to Service adjustment Mode.
- 3. Connect an oscilloscope CN150 Pin (Y OUT).
- 4. Select PHPO with 1 and 4.
- 5. Adjust with 3 and 6 for the $43.0 \pm 3.0 \mu sec$ (H).

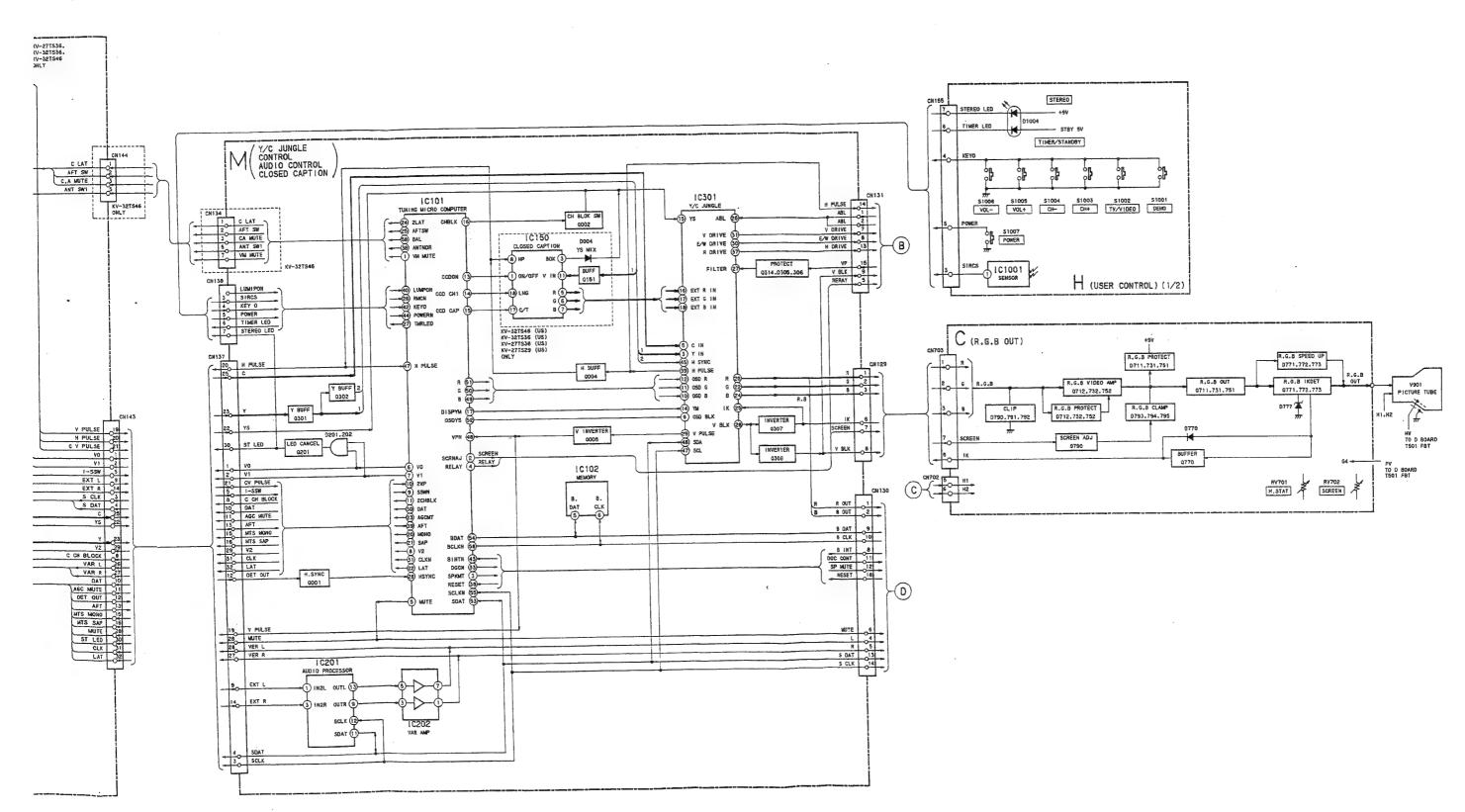


6. Write the memory by pressing MUTING then ENTER.

SECTION 6
DIAGRAMS

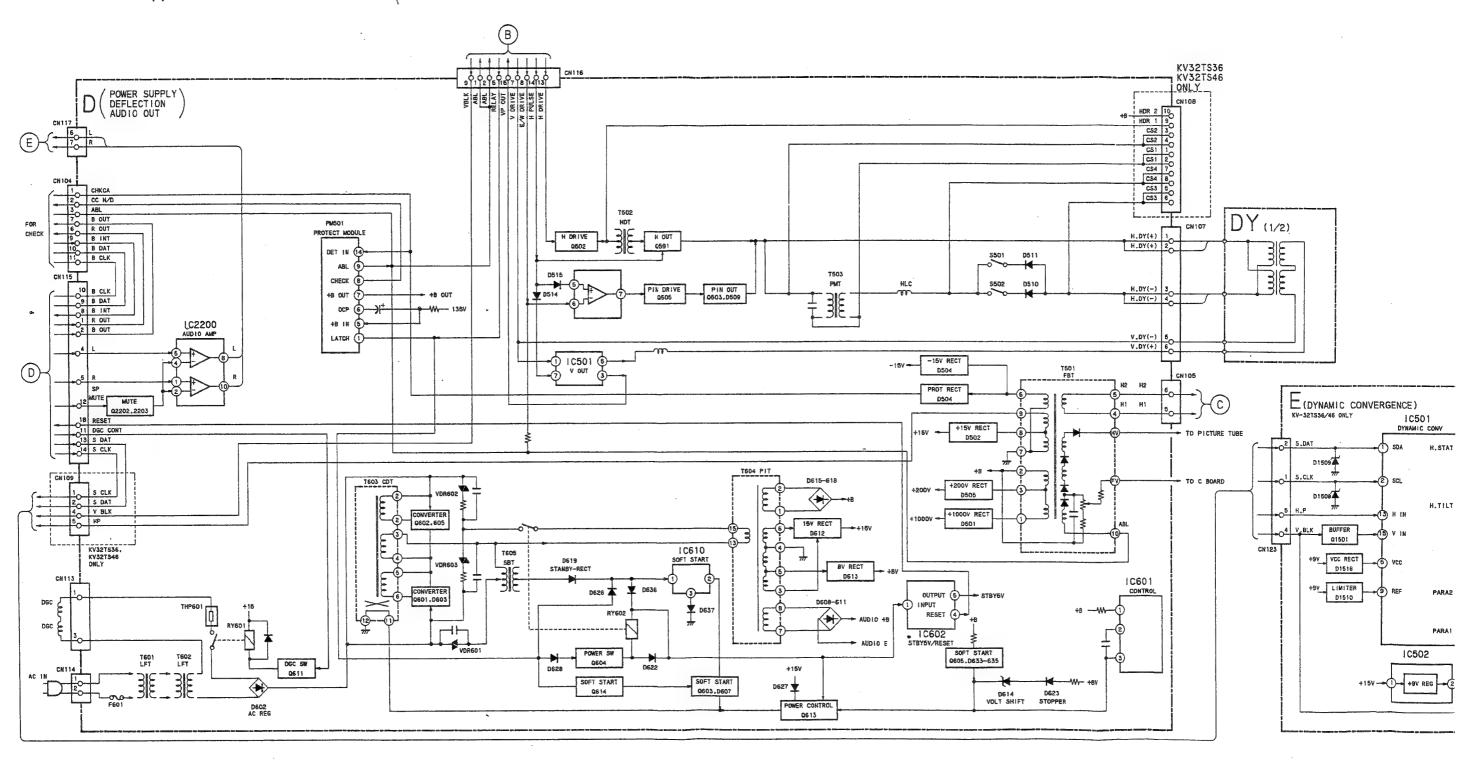


KV-27TS29/27TS32/27TS36 RM-Y116 RM-Y117 RM-Y118 KV-32TS36/32TS46 RM-Y118 RM-Y118 SA-W200

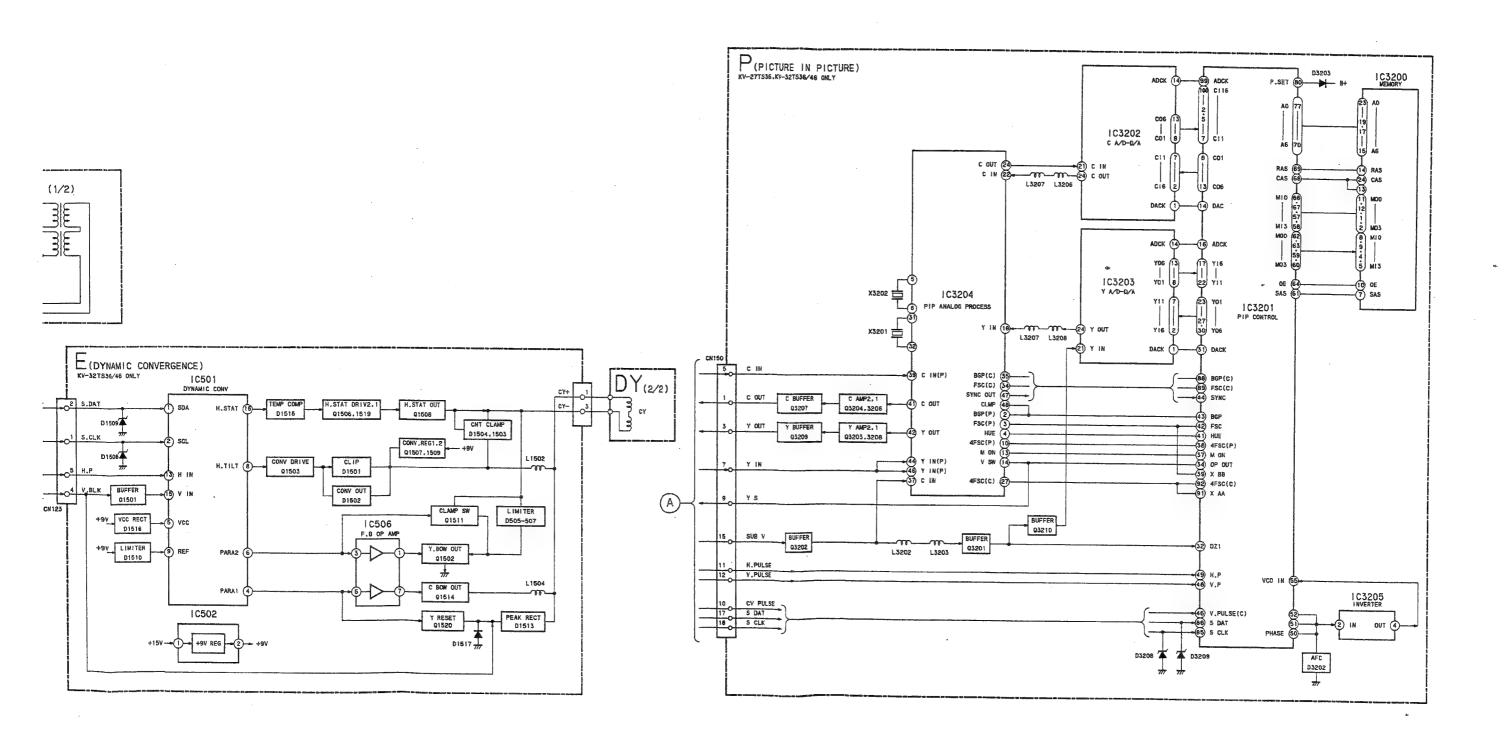


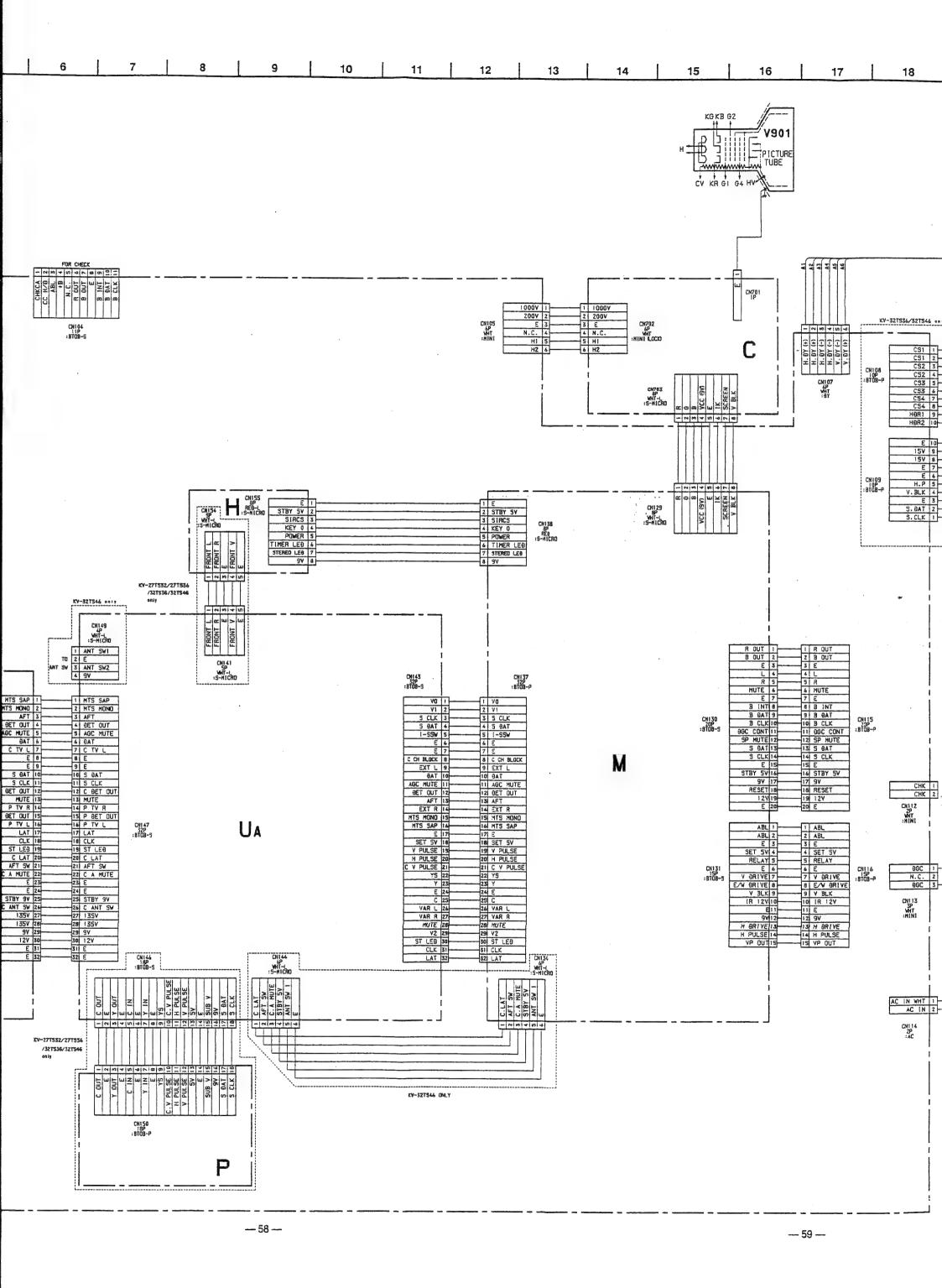
KV-27TS29/27TS32/27TS36 RM-Y116 RM-Y117 RM-Y118 KV-32TS36/32TS46 RM-Y118 RM-Y118 SA-W200

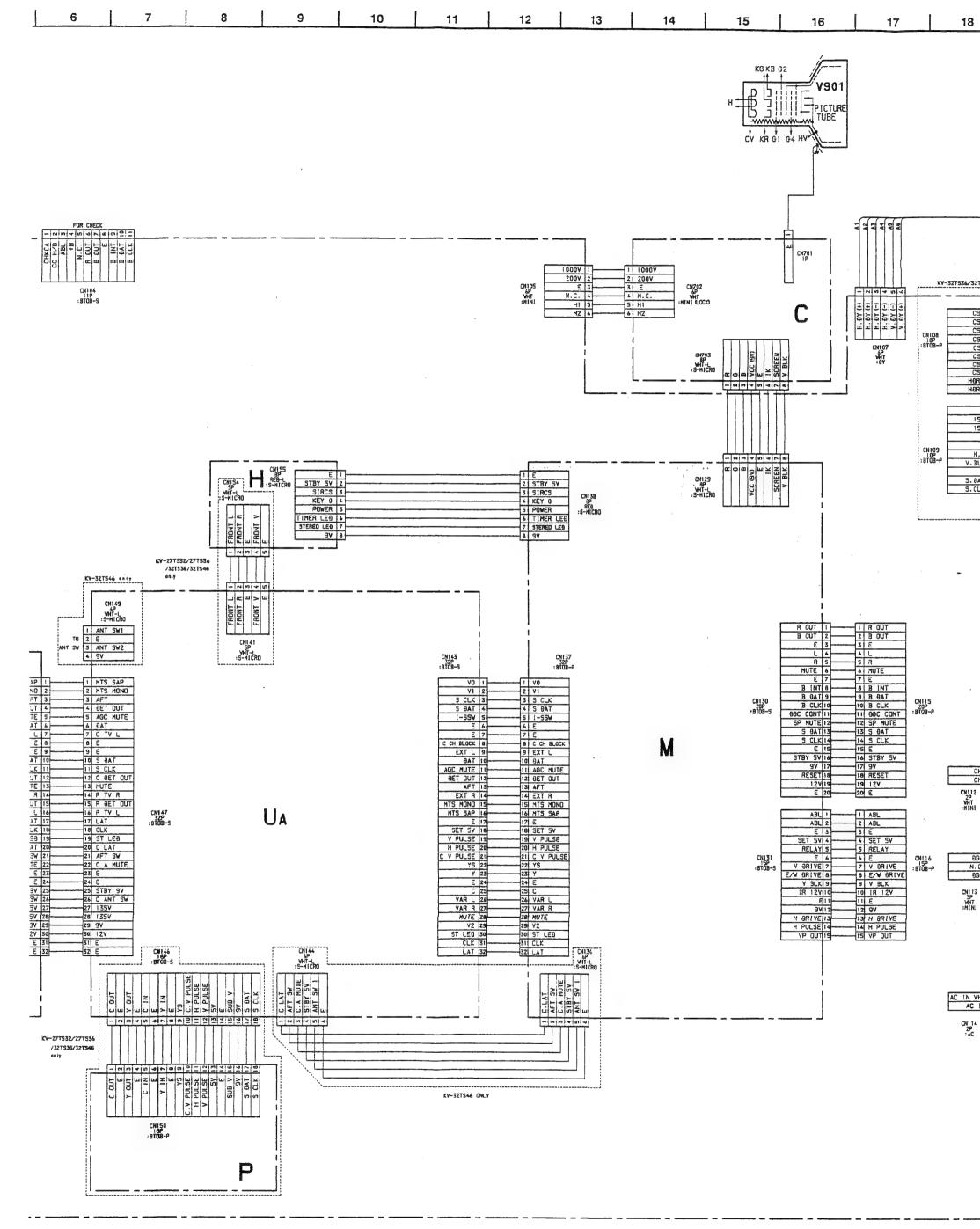
BLOCK DIAGRAMS (2)

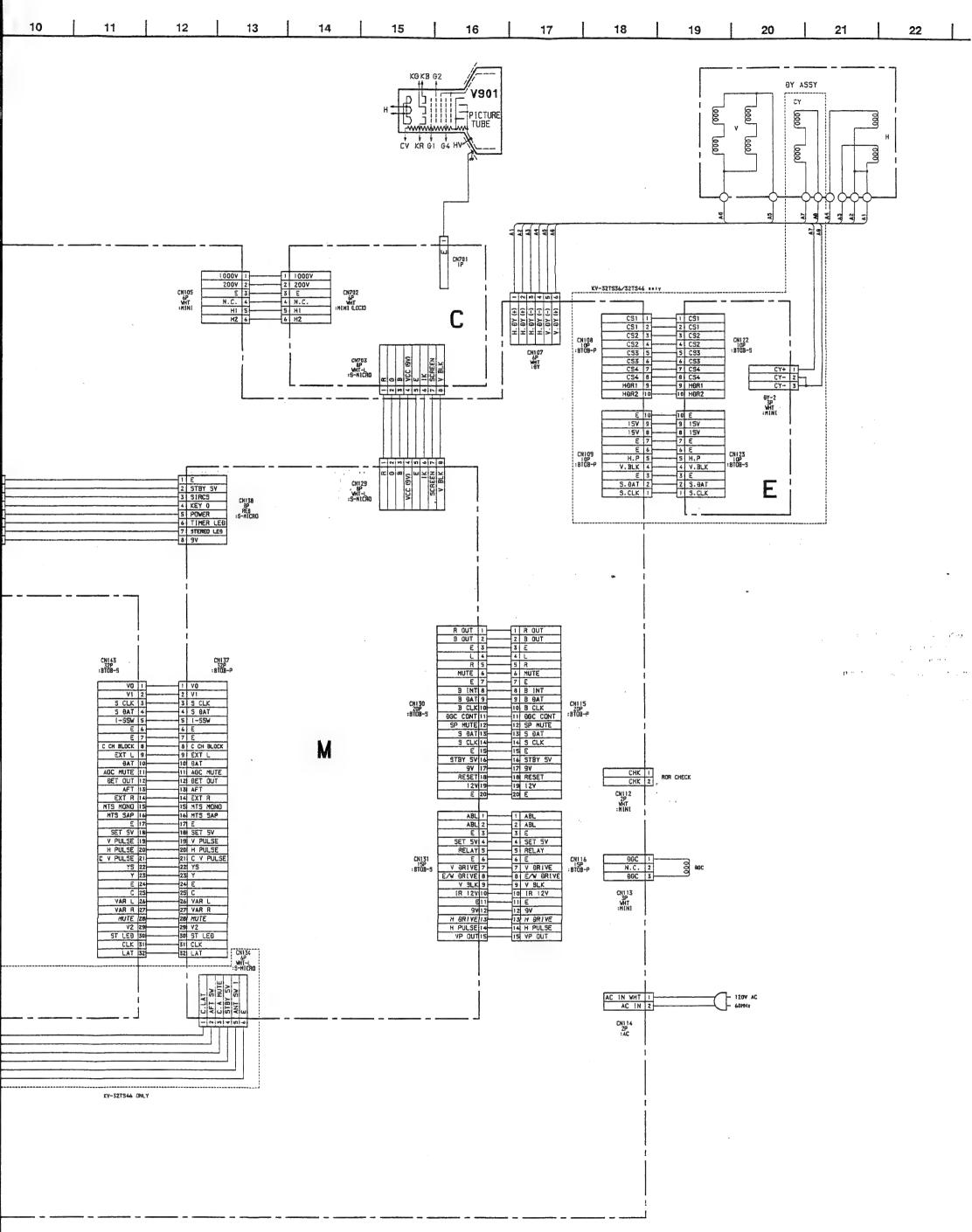


KV-27TS29/27TS32/27TS36 RM-Y116 RM-Y117 RM-Y118 KV-32TS36/32TS46 RM-Y118 RM-Y118 SA-W200

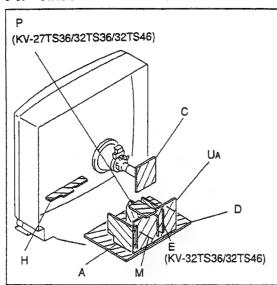








6-3. CIRCUIT BOARDS LOCATION



6-4. PRINTED WIRING BOARDS AND **SCHEMATIC DIAGRAMS**

- · All capacitors are in µF unless otherwise noted.
- pF: µµF 50WV or less are not indicated except for electrolytic
- · All electrolytics are in 50V unless otherwise specified.
- · Indication of resistance, which does not have one for rating electrical power, is as follows.

Rating electrical power 1/4W

- · Chips resistors are 1/10W.
- · All resistors are in ohms. $k\Omega=1000\Omega$, $M\Omega=1000K\Omega$
- · mai: nonflammable resistor.
- fusible resistor.
- ∆: internal component.
- · ____: panel designation, and adjustment for repair.
- · All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- _نــ: earth-ground. (cool)
- 777: earth-chassis. (hot)
- . The components identified by [2] in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation.
- Should replacement be required, replace only with the value originally used.
- · When replacing components identified by . , make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by $oldsymbol{\mathbb{B}}$ and repeat the adjustment until the specified value is achieved. (Refer to R511 and R524 on page 41, 42)
- · When replacing the part in below table be sure to parform the related adjustment.

Part replaced (2)	Adjustment (日)
PM501, R511, R632, R645, R650 R338 M BOARD	HOLD-DOWN (R511)
IC601, PM501, D504, C598 R509, R524, R632, R635, R645, T501 R338 M BOARD	HOLD-DOWN (R524)

- · All voltages are in V.
- · Voltage are dc with respect to ground unless otherwise noted.
- Readings are taken with a 10 MΩ digital multimeter.
- · Readings are taken with a color-bar signal input.
- · Voltage variations may be noted due to normal production
- · Circled numbers are waveform references.

• 🚅 : B+ line.

: B- line.

iai pain.	
ormation	
: RN	METAL FILM
: RC	SOLID
: FPRD	NONFLAMMABLE CARBON
: FUSE	NONFLAMMABLE FUSIBLE
:RW	NONFLAMMABLE WIREWOUND
: RS	NONFLAMMABLE METAL OXIDE
: RB	NONFLAMMABLE CEMENT
: *	ADJUSTMENT RESISTOR
: LF-8L	MICRO INDUCTOR
:TA	TANTALUM
:PS	STYROL
:PP	POLYPROPYLENE
:PT	MYLAR
: MPS	METALIZED POLYESTER
: MPP	METALIZED POLYPROPYLENE
: ALB	BIPOLAR
: ALT	HIGH TEMPERATURE
: ALR	HIGH RIPPLE
	: FPRD : FUSE : RW : RS : RB : ** : LF-8L : TA : PS : PP : PT : MPS : MPP : ALB

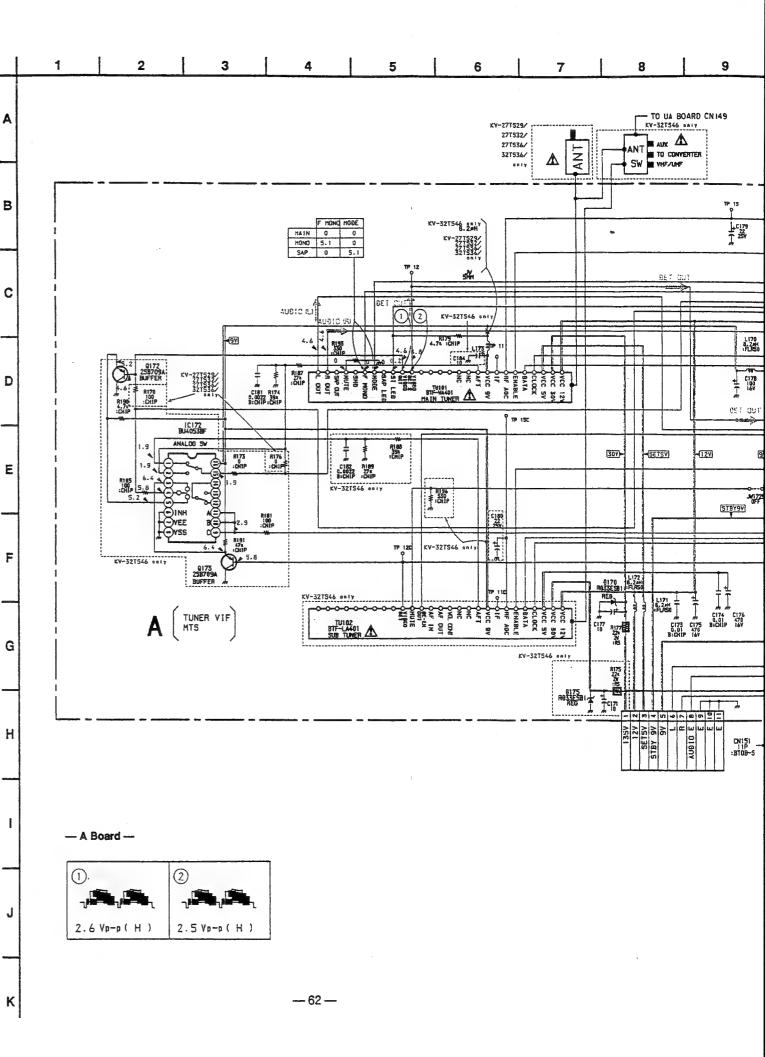
Note: The symbol - display is on the component side.

The components identified by shading and mark A are critical for safety. Replace only with part number specified.

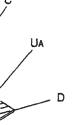
The symbol = indicate fast operating fuse. Replace only with fuse of same rating as marked.

Note:Les composants identifiés par un tramé et une marque A sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro

Le symbole - Indique une fusible a action rapide. Doit etre remplacee par une fusible de meme yaleur, comme maque.



MOITA



V-32TS36/32TS46)

DS AND

ise noted. ed except for electrolytic

erwise specified. not have one for rating

ent for repair. ave characteristic curve

this manual have been set in order to satisfy

lace only with the value

ied by 🙎, make the results do not meet the ent identified by B and e be sure to parform the

ed value is achieved. , 42)

Part replaced (2)	Adjustment (🗷)
PM501, R511, R632, R645, R650 R338	D BOARD M BOARD	HOLD-DOWN (R511)
IC601, PM501, D504, C598 R509, R524, R632, R635, R645, T501 R338		HOLD-DOWN (R524)

- · All voltages are in V.
- · Voltage are dc with respect to ground unless otherwise noted.
- Readings are taken with a 10 M Ω digital multimeter.
- · Readings are taken with a color-bar signal input.
- · Voltage variations may be noted due to normal production tolerance.
- Circled numbers are waveform references.
- : B+ line. : B- line.
- · signal path.

Reference information

RESISTOR	:RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFLAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	:RW	NONFLAMMABLE WIREWOUND
	:RS	NONFLAMMABLE METAL OXIDE
	: RB	NONFLAMMABLE CEMENT
	: *	ADJUSTMENT RESISTOR
COIL	: LF-8L	MICRO INDUCTOR
CAPACITOR	:TA	TANTALUM
	:PS	STYROL
	:PP	POLYPROPYLENE
	:PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ALB	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE
	377.000	

Note: The symbol - display is on the component side.

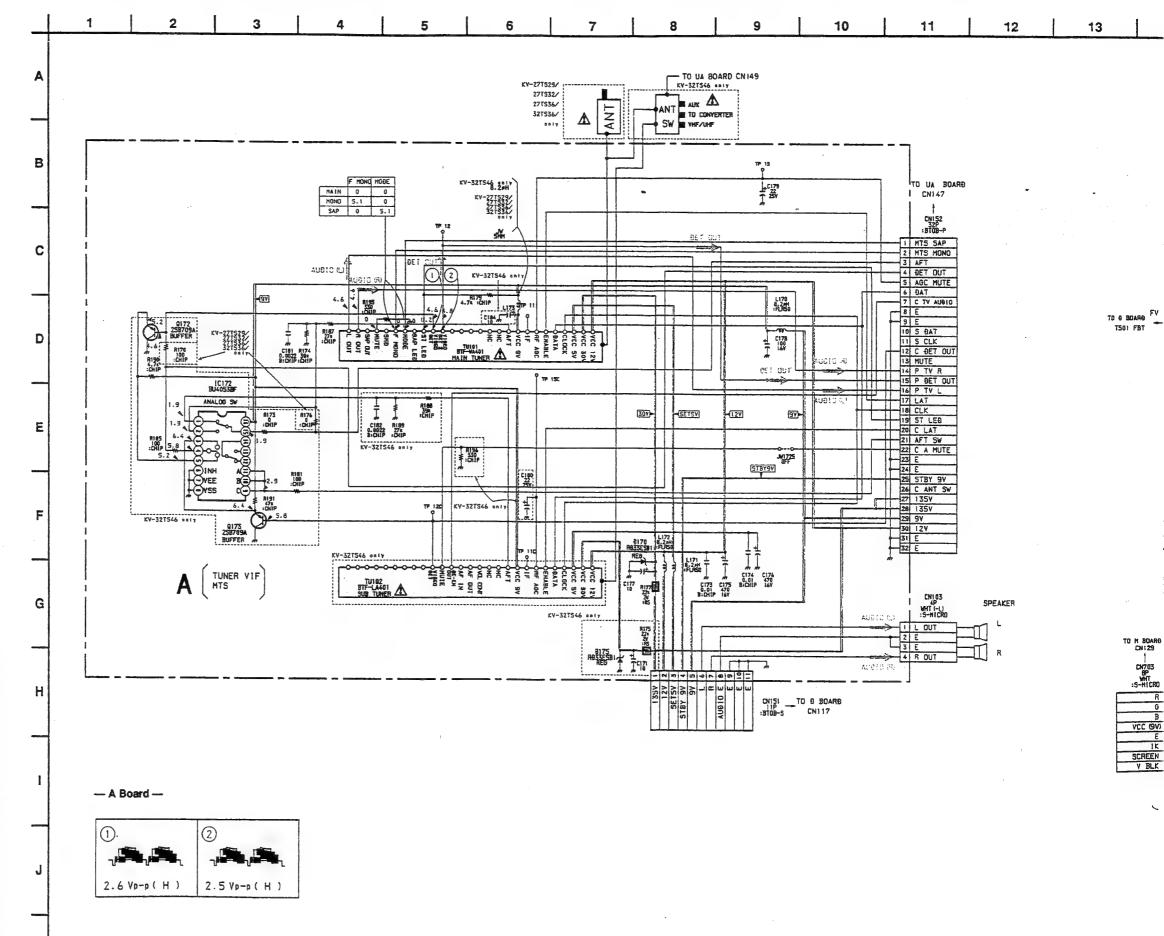
The components identified by shading and mark A are critical for safety. Replace only with part number specified.

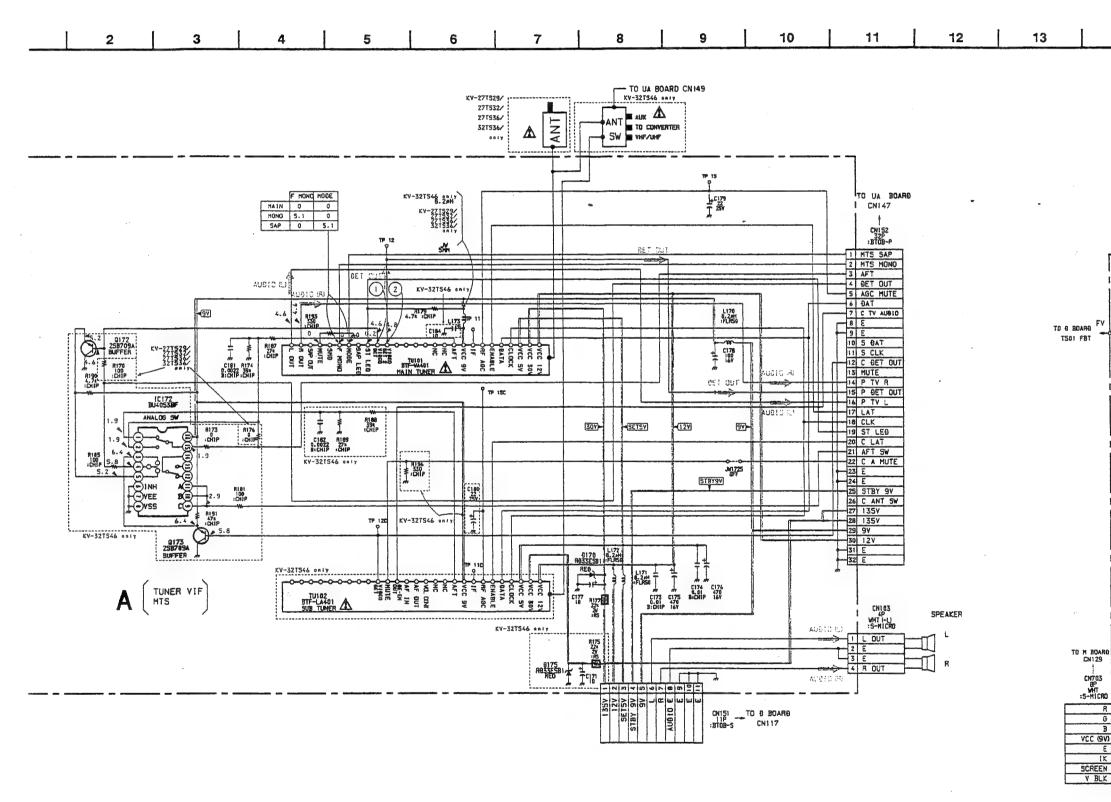
The symbol = indicate fast operating fuse. Replace only with fuse of same rating as marked.

Note:Les composants identifiés par un tramé et une marque A sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

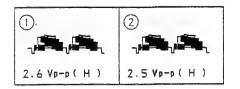
Le symbole 🖶 Indique une fusible a action rapide. Doit etre remplacee par une fusible de meme yaleur, comme maque.

K

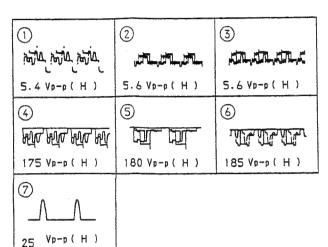


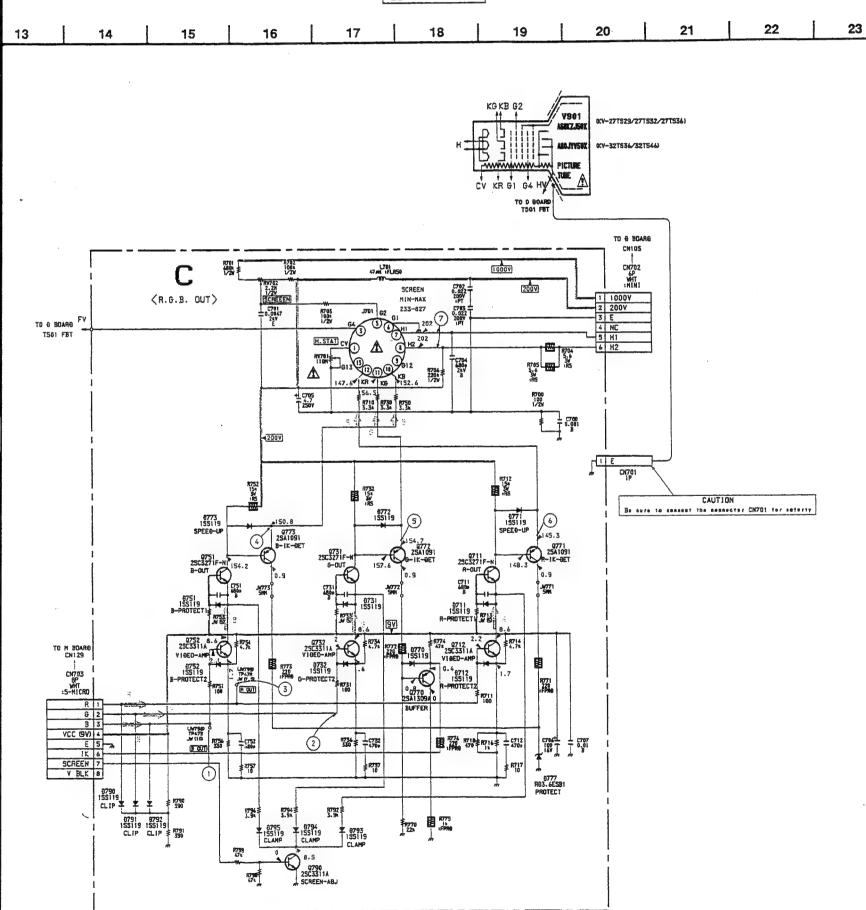


- A Board -





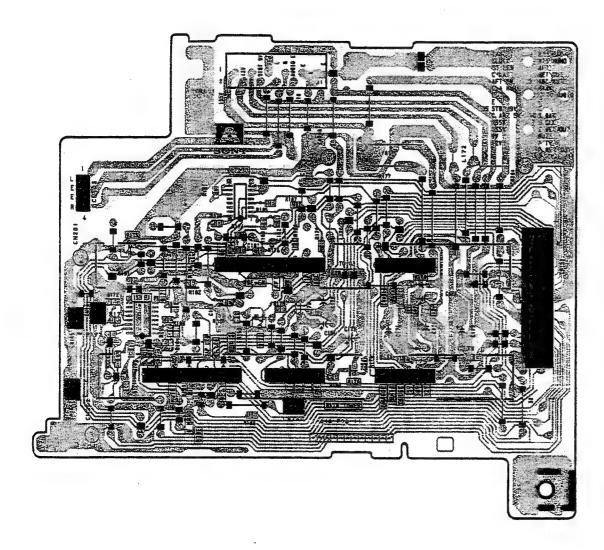




KV-27TS29/27TS32/27TS36 RM-Y116 RM-Y117 RM-Y118 KV-32TS36/32TS46 RM-Y118 RM-Y118 SA-W200

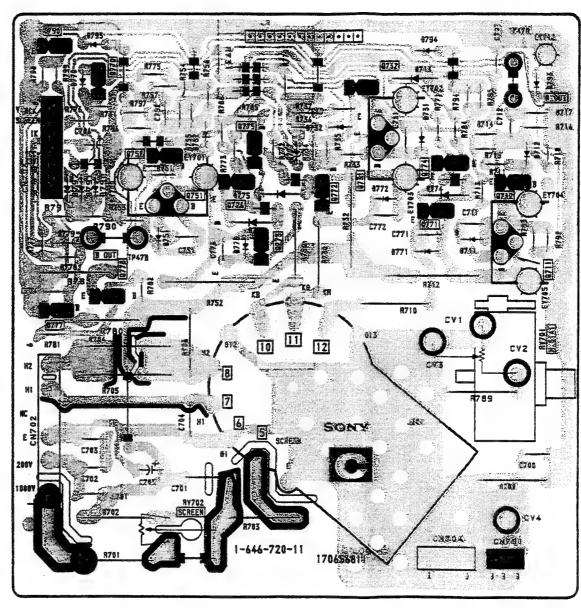


- A Board -





— C Board —





NOTE:

The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

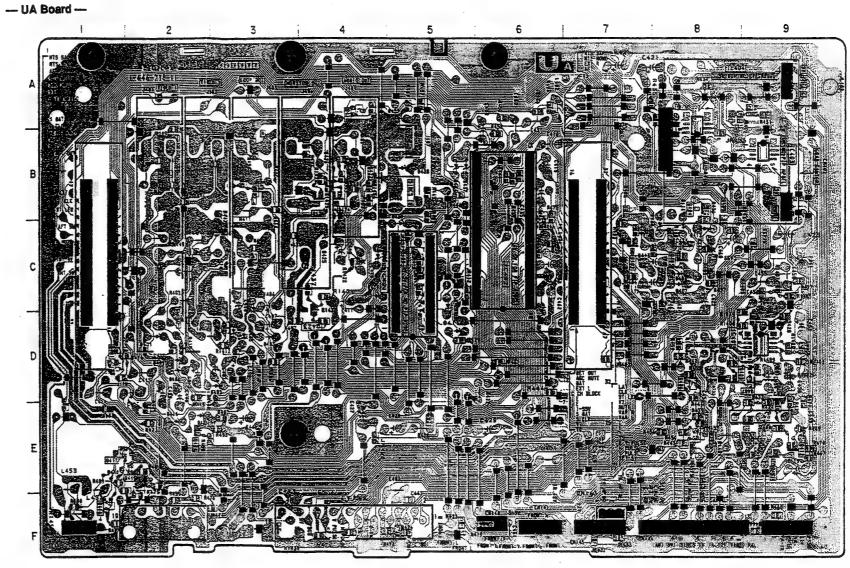
KV-27TS29/27TS32/27TS36 RM-Y116 RM-Y117 RM-Y118 KV-32TS36/32TS46 RM-Y118 RM-Y118 SA-W200



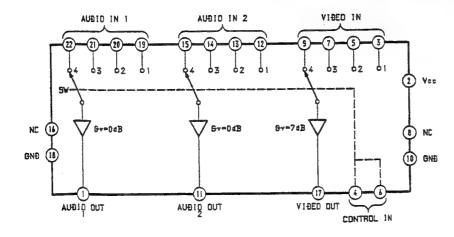
[AV SW, AV INPUT, AV OUTPUT]

- UA Board -

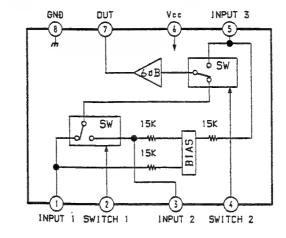
- 1		
	TRAN	SISTOR
	Q410 Q414	E-8 D-8 A-4 B-6 E-2 F-1 E-1
	DI	ODE
	D402 D405 D408 D436	D-2 D-3 C-4 D-2 B-5 B-5



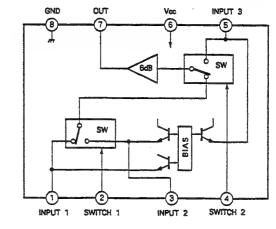
UA Board IC401 M5470AP

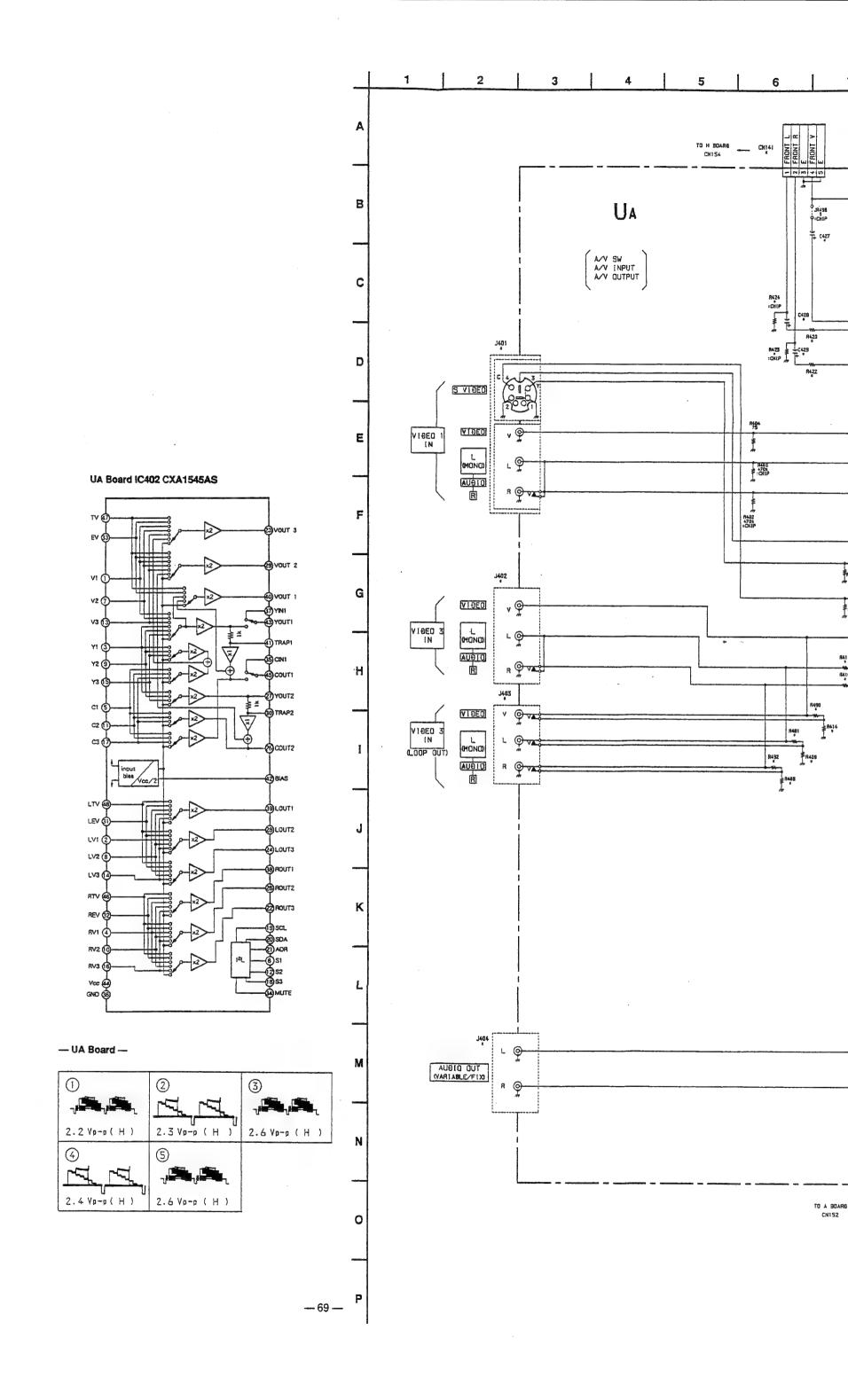


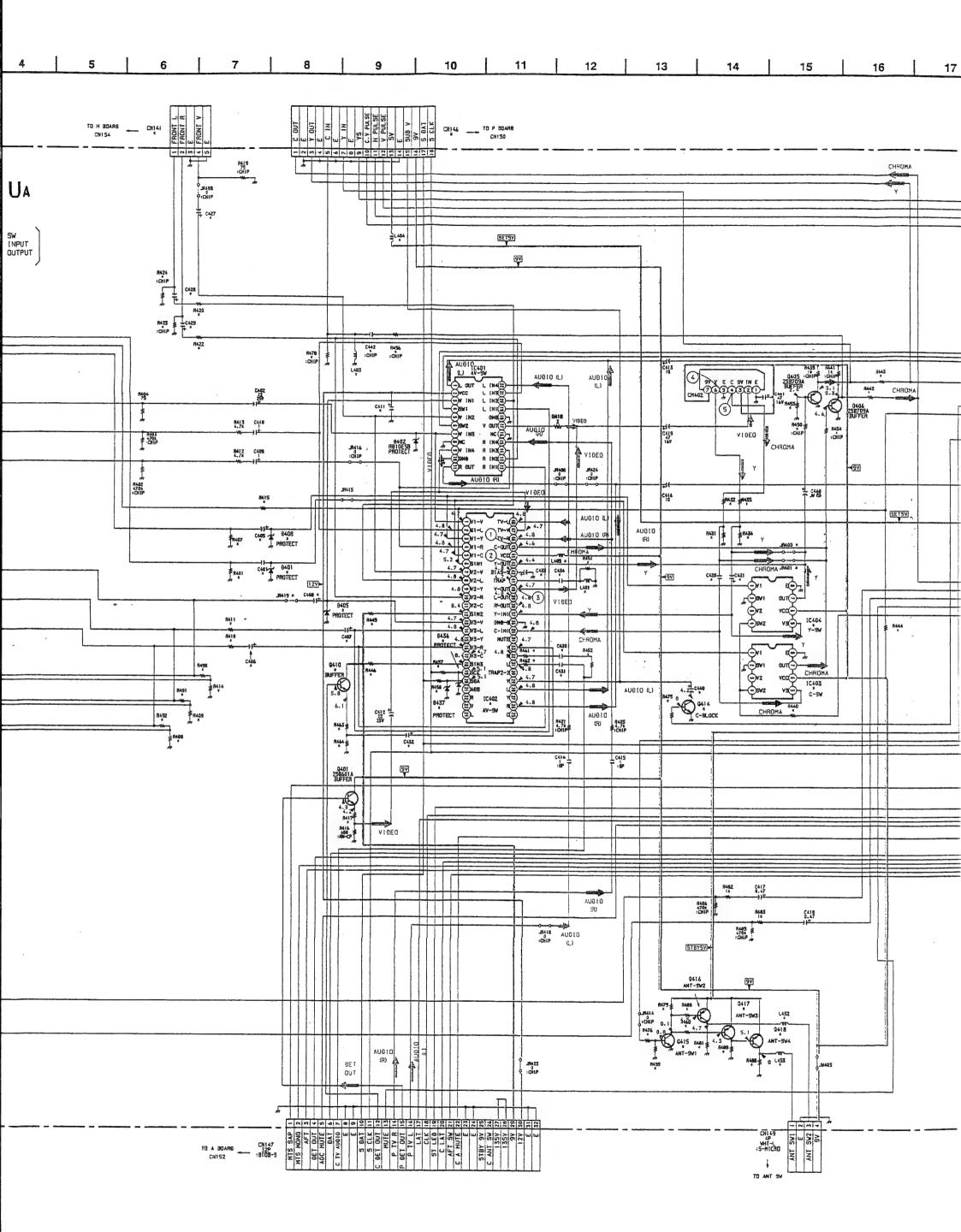
UA Board IC403 MM1114XFF

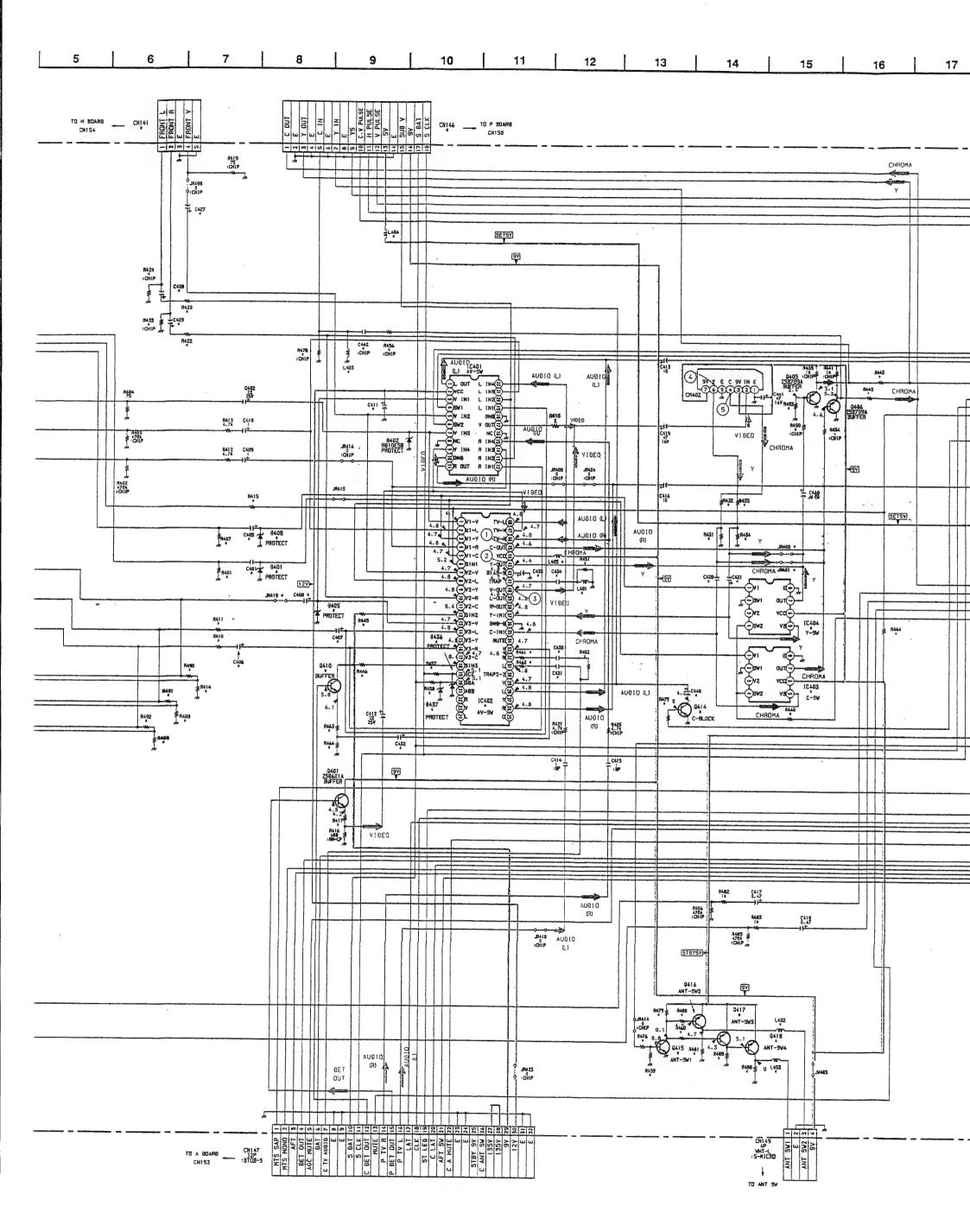


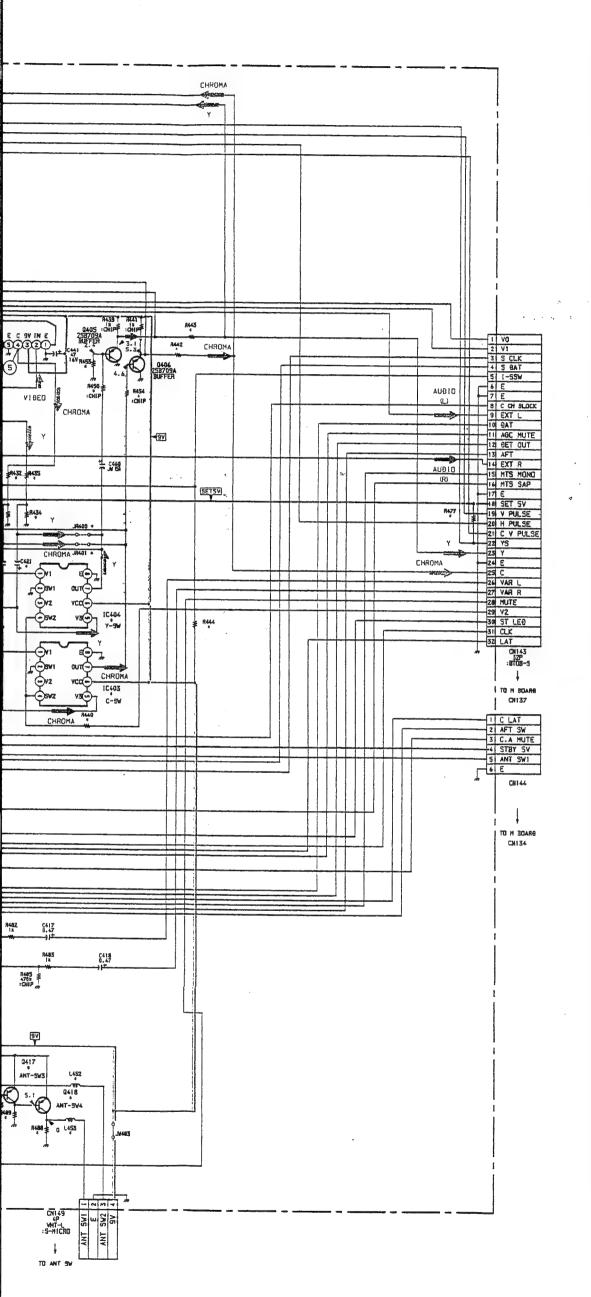
UA Board IC404 MM1118XFF





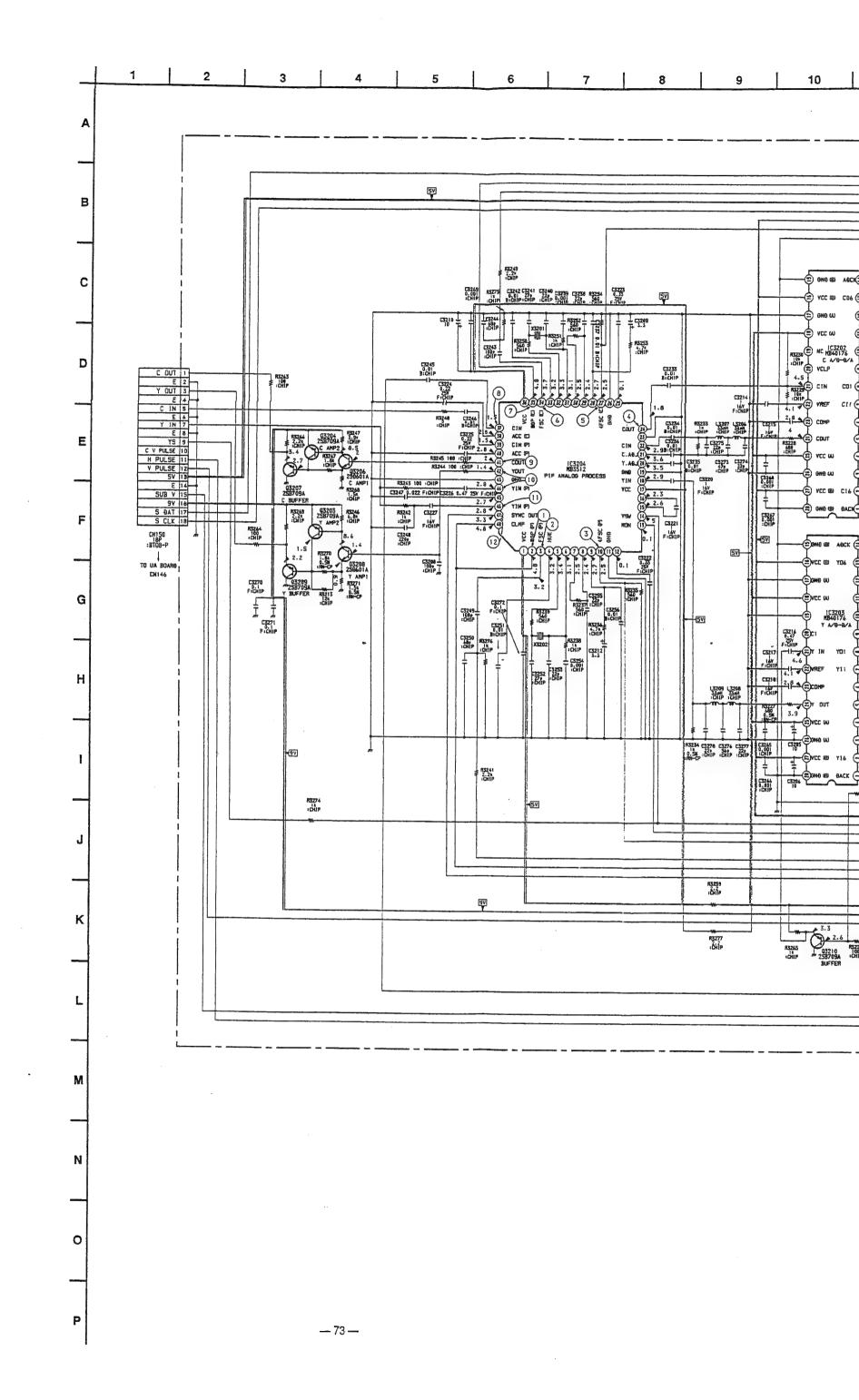


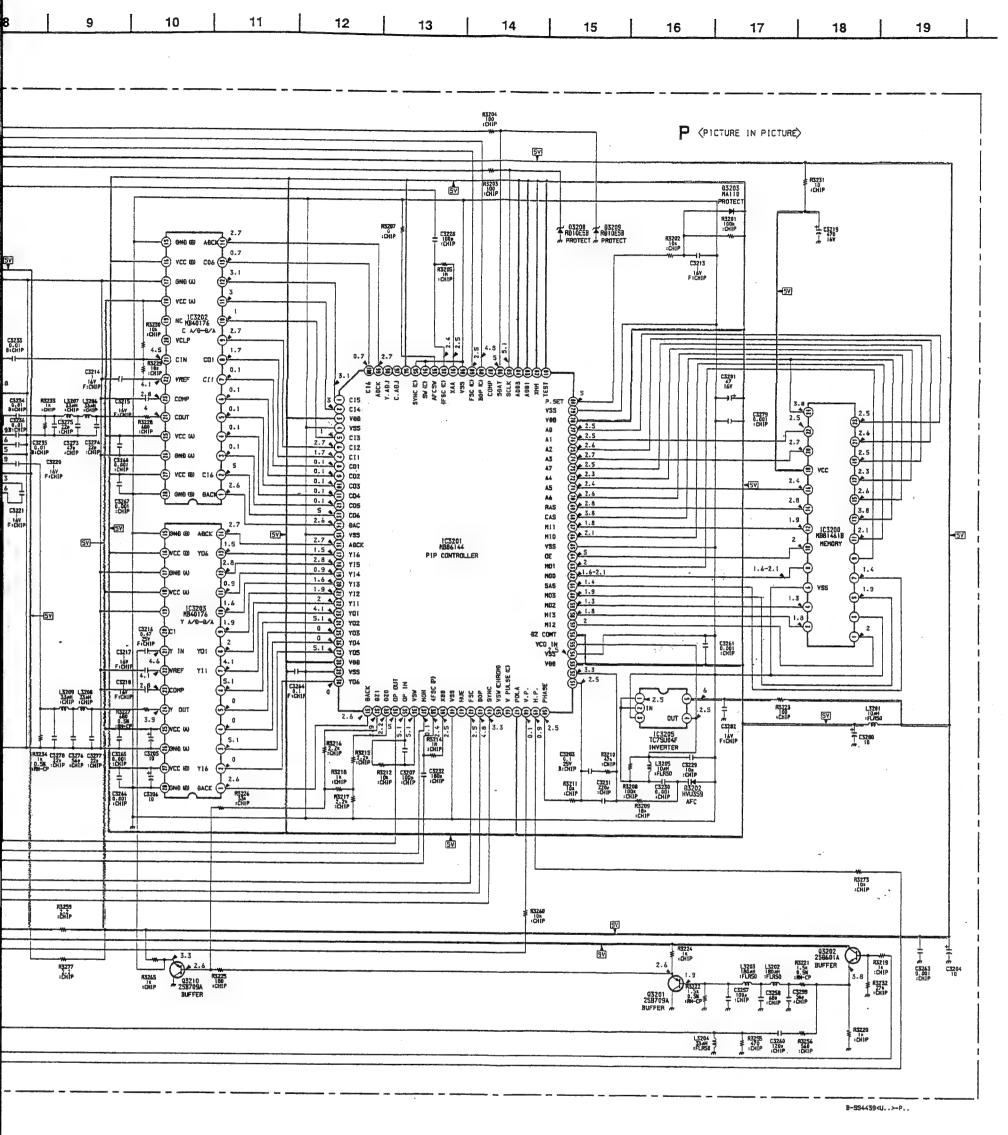




	KV-32TS46	KV-27TS36 KV-32TS36	KV-27TS32	KV-27TS29
C401	0.01 F: CHIP	0.01 F: CHIP	0.01 F: CHIP	
C405	22 25V	22 25V	22 25V	•
C406	1	1	1	-
C407	ţ	1	1	-
C408	22 25V	22 25V	22 25V	-
CIII	•	•	100 25V	100 25V
C420	0.01 F: CHIP	0.01 F: CHIP	0.01 F: CHIP	-
C421	22 25V .	22 25V	0. 47	-
C427	JW (5)	JW (5)	AV (5)	-
C428	JW (5)	JW (5)	JW (5)	-
C429	JW (5)	JW (5)	M (5)	-
C430	1	-	-	-
C431	. 1	-	-	-
C432	22 2SV	-	•	-
C433	33 25V	33 25V		-
C434	100P : CHIP	100P : CHIP	-	-
C440	10	10	-	-
C442	IOOP : CHIP	100P : CHIP	-	
CN141	SP WHT-L : S-MICRO	SP WHT-L : S-MICRO	SP WHT-L : S-MICRO	-
CN144	6P WHT+L : S-MICRO	-	-	-
CN146	18P : 0T08-S	18P : 9TOB-S		~
CN149	4P WHT-L : S-MICRO	•	-	-
0401	R010ES8	RD10ESB	R010ES8	-
0405	RD10ESB	RD10ES8	9D10ES8	
0408	R010ES8	RD10ES8	R010ESB	-
0436	R010ES8	R010ES8		-
0437	9010558	9010558		

Cattle	C408	22 25V	22 25V	22 25V	-
Color	C411		-		100 25V
1977 1978 1979					-
C-202 M. (S)					-
CASP M. (S)	_				-
C-040					-
CAST			JW (5)	.M (5)	-
1922 22 1957			-		
133 33 759					
1009	$\overline{}$				
CAMP CAMP					
CHASE COPP COUPP					
Color Colo					
STEPAINS	V-10-		, (21)		
STEPAINS	CN141	SP WHT-L : S-MICRO	SP WHT-L : S-MICRO	SP WHT-L : S-MICRO	-
COM-14 Part STORES SP	CN144				-
Design D	CN146				-
MORES MORES MORES MORES MORES MORES	CN149	4P WHT-L : S-MICRO	-	-	-
MORES MORES MORES MORES MORES MORES					
MONOSS				R010ES8	•
MAIN MAIN					•
MAIN MAIN				R010ESB	
TOWN				•	•
TAMES CASISSAS C			NOTOESB		-
	1C401	•	-	WS2470AP	1/52470AP
GOAD STERNING BLOCK STERNING BLOCK STERNING BLOCK PIN JUCK BLOCK BLOCK PIN JUCK BLOCK	IC402	CXA1545AS	CXA1545AS	-	
	IC403			MAIT 14XFF	+
JACK SLOCK PIN JACK BLOCK PIN JACK BLOCK	1C404	-	-	MAITIEXEF	¥ ,
JACK SLOCK PIN JACK BLOCK PIN JACK BLOCK					
JAMES JAME					
MAN MAN		FIN JACK BLOCK	PIN JACK BLOCK		
JAMIS 0 CHIP 0 CHIP 0 CHIP -	J403	•	-	rin JACK BLOCK	•
JAMIS 0 CHIP 0 CHIP 0 CHIP	JRACO	-		-	0 . Cure
JAMA19 0		•			
Section Sect		0 : CHIP			
MAN MAN					
L400					
L404	JW403	TOMA	-	•	-
L404					
L405				-	**
L452 M (5)					-
L453					• .
L453 M (5)					
OA10			•		
DA14 259601A	1,453	J# (3)	-	-	•
DA14 259601A	0410	250601A	-		
QA15 250601A				-	
OA16 258709A				-	
QA16 258709A					
R401 75		2S8709A	- 1	-	-
R407 75					
R407 75	Q417	2\$8709A	-	•	-
R408	Q417 Q418	2S8709A 2S8709A	-	-	-
RA109	Q417 Q418 R401	258709A 258709A 75 : CHIP	75 : CHIP	-	-
RA10	Q417 Q418 R401 R407	258709A 258709A 75 : CHIP 75 : CHIP	75 : CHIP	75 : CHIP	•
R411	Q417 Q418 R401 R407 R408	2S8709A 2S8709A 75 : CHIP 75 : CHIP 470K : CHIP	75 : CHIP 75 : CHIP 470K : CHIP	75 : CHIP 75 : CHIP 470K : CHIP	
RA14	Q417 Q418 R401 R407 R408 R409	258709A 258709A 75 : CHIP 75 : CHIP 470K : CHIP 470K : CHIP	75 : CHIP 75 : CHIP 470K : CHIP 470K : CHIP	75 : CHIP 75 : CHIP 470K : CHIP 470K : CHIP	-
R415	Q417 Q418 R401 R407 R408 R409 R410	258709A 258709A 75 : CHIP 75 : CHIP 470K : CHIP 470K : CHIP 4,7K	75 : CHIP 75 : CHIP 470K : CHIP 470K : CHIP 4.7K	75 : CHIP 75 : CHIP 470K : CHIP 470K : CHIP 4.7K	-
RA17 S50	Q417 Q418 R401 R407 R408 R409 R410	258709A 258709A 75 : CHIP 75 : CHIP 470K : CHIP 470K : CHIP 4, 7K 4, 7K	75 : CHIP 75 : CHIP 470K : CHIP 470K : CHIP 4.7K	75 : CHIP 75 : CHIP 470K : CHIP 470K : CHIP 4,7K 4,7K	-
RA18 -	Q417 Q418 R401 R407 R408 R409 R410 R411	2SB709A 2SB709A 75 : CHIP 75 : CHIP 470K : CHIP 470K : CHIP 4, 7K 4, 7K 75 : CHIP	75 : CHIP 75 : CHIP 470K : CHIP 4.7K 4.7K 75 : CHIP	75 : CHIP 75 : CHIP 470K : CHIP 470K : CHIP 4, 7K 4, 7K 75 : CHIP	
R420	Q417 Q418 R401 R407 R408 R409 R410 R411 R414 R415	2SB709A 2SB709A 75 : CHIP 75 : CHIP 470K : CHIP 470K : CHIP 4, 7K 4, 7K 75 : CHIP 4, 7K : CHIP 4, 7K : CHIP	75 : CHIP 75 : CHIP 470K : CHIP 470K : CHIP 4, 7K 4, 7K 75 : CHIP 4, 7K 75 : CHIP	75 : CHIP 75 : CHIP 470K : CHIP 470K : CHIP 4, 77K 4, 77K 75 : CHIP 4, 77K : CHIP	-
R422	Q417 Q418 R401 R407 R408 R409 R410 R411 R414 R415 R417	2S8709A 2S8709A 75 : CHIP 75 : CHIP 470K : CHIP 470K : CHIP 4,7K 4,7K 75 : CHIP 4,7K : CHIP 560 : RN-CP	75 : CHIP 75 : CHIP 470K : CHIP 470K : CHIP 4, 7K 4, 7K 75 : CHIP 4, 7K 75 : CHIP 550 : RN-CP	75 : CHIP 75 : CHIP 470K : CHIP 470K : CHIP 4, TK 4, TK 7, TS : CHIP 4, TK 5, TS : CHIP 4, TK : CHIP 4, TK : CHIP 4, TK : CHIP 4, TK : CHIP 4, TK : CHIP 4, TK : CHIP	
R431	Q417 Q418 R401 R407 R408 R408 R410 R411 R414 R415 R417 R418	2SB709A 2SB709A 75 : CHIP 75 : CHIP 470K : CHIP 470K : CHIP 4,77K 4,77K 75 : CHIP 4,77K : CHIP 4,77K : CHIP 560 : RN-CP	75 : CHIP 75 : CHIP 470K : CHIP 470K : CHIP 4, 7K 4, 7K 75 : CHIP 4, 7K 550 : RN-CP	75 : CHIP 75 : CHIP 470K : CHIP 470K : CHIP 4, 7K 4, 7K 75 : CHIP 4, 7K 1, 7K : CHIP 470 : RH-CP 100 : CHIP	
R434	R401 R401 R407 R408 R409 R410 R411 R414 R415 R417 R418 R420 R422	2SBTOSA 2SBTOSA 75 : CHIP 75 : CHIP 470K : CHIP 4.70K : CHIP 4.70K : CHIP 4.70K : CHIP 4.70K : CHIP 5.70 : CHIP 5.	75 : CHIP 75 : CHIP 470K : CHIP 470K : CHIP 4, 7K 4, 7K 75 : CHIP 4, 7K 75 : CHIP 550 : RN-CP JW (5)	75 : CHIP 75 : CHIP 470K : CHIP 470K : CHIP 4,7K - CHIP 4,7K - CHIP 4,7K - CHIP 4,7K : CHIP 4,7K : CHIP 4,7C : CHIP 470 : RN-CP 100 : CHIP JW (S)	
R435 0	R401 R407 R408 R408 R409 R410 R411 R414 R415 R415 R417 R418 R420 R422 R422	2SBTOSA 2SBTOSA 75 : CHIP 75 : CHIP 470K : CHIP 470K : CHIP 4. 7K 4. 7K 75 : CHIP 4. 7K : CHIP 75 : CHIP 75 : CHIP 75 : CHIP 75 : CHIP 75 : CHIP 75 : CHIP 75 : CHIP 76 : CHIP 77 : CHIP 77 : CHIP 78 : CHIP 78 : CHIP	75 : CHIP 75 : CHIP 470K : CHIP 470K : CHIP 4,7K 4,7K 75 : CHIP 4,7K : CHIP 560 : RN-CP - JW (5) JW (5) 1K : CHIP	75 : CHIP 75 : CHIP 75 : CHIP 470K : CHIP 470K : CHIP 4, 7K 4, 7K 75 : CHIP 4, 7K : CHIP 4, 7K : CHIP 4, 7K : CHIP 4, 7K : CHIP 4, 7K : CHIP 4, 7K : CHIP 4, 7K : CHIP 4, 7K : CHIP 4, 7K : CHIP 4, 7K : CHIP 4, 7K : CHIP 4, 7K : CHIP 4, 7K : CHIP 5, 7K : CHIP 6, 7K : CHIP	
R440	Q417 Q418 R401 R407 R408 R409 R410 R411 R414 R415 R415 R417 R418 R420 R422 R421 R432	2SB709A 2SB709A 75 : CHIP 75 : CHIP 470K : CHIP 470K : CHIP 4.7K 4.7K 75 : CHIP 4.7K : CHIP 580 : RN-CP - JW (5) JW (5) 1K : CHIP 0 : CHIP	75 : CHIP 75 : CHIP 470K : CHIP 470K : CHIP 4, 7K 4, 7K 4, 7K 75 : CHIP 4, 7K 550 : RN-CP - JW (5) JW (5) 1K : CHIP 0 : CHIP	75 : CHIP 75 : CHIP 75 : CHIP 470K : CHIP 470K : CHIP 4, 7K 4, 7K 4, 7K 75 : CHIP 4, 7K : CHIP 470 : RN-CP 100 : CHIP JW (S) JW (S) 580 : CHIP 580 : CHIP	
R442 -	Q417 Q418 R401 R407 R408 R409 R410 R411 R414 R415 R415 R417 R418 R420 R422 R431 R432 R433	2SB709A 2SB709A 75 : CHIP 75 : CHIP 470K : CHIP 470K : CHIP 4.7K 4.7K 75 : CHIP 4.7K : CHIP 580 : RN-CP - JW (5) JW (5) 1K : CHIP 1K : CHIP 1K : CHIP	75 : CHIP 75 : CHIP 470K : CHIP 470K : CHIP 470K : CHIP 4, 7K 4, 7K 4, 7K 5: CHIP 550 : RN-CP - JW (5) JK : CHIP 1K : CHIP 1K : CHIP	75 : CHIP 75 : CHIP 76 : CHIP 470K : CHIP 470K : CHIP 4, 7K 4, 7K 75 : CHIP 4, 7K : CHIP 4, 7K : CHIP JW (5) JW (5) 580 : CHIP 580 : CHIP	
R443 -	Q417 Q418 R401 R401 R407 R408 R409 R410 R411 R414 R415 R417 R418 R420 R422 R431 R432 R433 R433 R433	2SBTOSIA 2SBTOSIA 75 : CHIP 75 : CHIP 470K : CHIP 470K : CHIP 4, 7K : CHIP 4, 7K : CHIP 560 : RN-CP - JW (5) JW (5) 1K : CHIP 0 : CHIP 0 : CHIP	75 : CHIP 75 : CHIP 470K : CHIP 4.7K 4.7K 4.7K 75 : CHIP 4.7K 75 : CHIP 550 : RN-CP - JW (5) JW (5) IK : CHIP 0 : CHIP 0 : CHIP	75 : CHIP 75 : CHIP 470K : CHIP 470K : CHIP 4,7K : CHIP 4,7K : CHIP 4,7K : CHIP 5,7K : CHIP 100 : CHIP	
R444 32K	Q417 Q418 R401 R407 R408 R409 R410 R411 R414 R415 R417 R418 R420 R422 R421 R432 R434 R435 R440	2SBTOSIA 2SBTOSIA 75 : CHIP 75 : CHIP 470K : CHIP 4.70K : CHIP 4.70K : CHIP 4.70K : CHIP 4.70K : CHIP 5.75 : CHIP 7.75 : CHIP 7.75 : CHIP 7.76 : CHIP 7.77 : CHIP 7.78 : CHIP 7.88 : CHIP	75 : CHIP 75 : CHIP 470K : CHIP 470K : CHIP 4.7K 4.7K 75 : CHIP 4.7K 75 : CHIP 550 : RN-CP	75 : CHIP 75 : CHIP 470K : CHIP 470K : CHIP 4, 7K : CHIP 4, 7C : CHIP 4, 7C : CHIP 680 : CHIP 680 : CHIP 680 : CHIP 680 : CHIP	
R445 10K	Q417 Q418 R401 R407 R408 R409 R410 R411 R414 R415 R417 R418 R420 R422 R421 R432 R431 R432 R434 R435 R440 R442	2SBTOSIA 2SBTOSIA 75 : CHIP 75 : CHIP 470K : CHIP 470K : CHIP 4. 7K 4. 7K 75 : CHIP 4. 7K : CHIP 4. 7K : CHIP 580 : RN-CP	75 : CHIP 75 : CHIP 470K : CHIP 470K : CHIP 4, 7K 4, 7K 75 : CHIP 4, 7K 2, CHIP 560 : RN-CP - JW (5) JW (5) 1K : CHIP 1K : CHIP 0 : CHIP 0 : CHIP	75 : CHIP 75 : CHIP 75 : CHIP 470K : CHIP 470K : CHIP 4, 7K - 4, 7K - 75 : CHIP 4, 7K : CHIP 4, 7K : CHIP 4, 7K : CHIP 4, 7K : CHIP 5, 75 : CHIP 6, 75 : CHIP 6, 75 : CHIP 6, 76 : CHIP 6, 76 : CHIP 6, 76 : CHIP 6, 76 : CHIP 6, 76 : CHIP 1,	
R446 10K	Q417 Q418 R401 R401 R409 R410 R411 R411 R415 R415 R420 R422 R431 R432 R434 R442 R443	2SBTOSIA 2SBTOSIA 75 : CHIP 75 : CHIP 470K : CHIP 470K : CHIP 470K : CHIP 4, 7K 4, 7K 4, 7K 75 : CHIP 4, 7K : CHIP 560 : RN-CP - JW (5) JW (5) 1K : CHIP 0 : CHIP 1K : CHIP 0 : CHIP 1	75 : CHIP 75 : CHIP 470K : CHIP 470K : CHIP 470K : CHIP 4, 7K 4, 7K 75 : CHIP 4, 7K 75 : CHIP 550 : RN-CP - JW (5) JW (5) 1K : CHIP 0 : CHIP 0 : CHIP	75 : CHIP 75 : CHIP 75 : CHIP 470K : CHIP 470K : CHIP 4, 7K 4, 7K 75 : CHIP 4, 7K : CHIP 4, 7K : CHIP 100 : CHIP 100 : CHIP 580 : CHIP 680 : CHIP 680 : CHIP 680 : CHIP 100 : CHIP	
R450 470 : CHIP 470 : CHIP 100 : CHIP 100 : CHIP R451 4.7K : CHIP 4.7K : GHIP - - - R452 100 : CHIP - - - - - R453 - - - 820 : RN-CP 820 : RN-CP R454 0 : CHIP 0 : CHIP 100 : CHIP 100 : CHIP - R455 470 : CHIP 470 : CHIP -	Q417 Q418 R401 R407 R408 R410 R411 R415 R417 R418 R422 R431 R432 R432 R433 R443 R443 R443 R443 R443	2SBTOSIA 2SBTOSIA 75 : CHIP 75 : CHIP 470K : CHIP 470K : CHIP 4, 7K 75 : CHIP 4, 7K : CHIP 560 : RN-CP - JW (5) JW (5) 1K : CHIP 0 : CHIP 0 : CHIP 1 : CHIP 0 : CHIP	75 : CHIP 75 : CHIP 75 : CHIP 470K : CHIP 4.7K 4.7K 4.7K 75 : CHIP 4.7K : CHIP 550 : RN-CP - JW (5) JW (5) IK : CHIP 0 : CHIP	75 : CHIP 75 : CHIP 75 : CHIP 470K : CHIP 470K : CHIP 4,7K : CHIP 4,7K : CHIP 4,7K : CHIP 100 : CHIP 100 : CHIP 580 : CHIP 100 : CHIP	
R451 4.7K : CNIP 4.7K : CNIP -	Q417 Q418 R401 R407 R408 R409 R410 R411 R415 R417 R418 R420 R422 R422 R424 R434 R434 R435 R443 R443 R443 R444 R445	2SBTOSIA 2SBTOSIA 2SBTOSIA 75 : CHIP 75 : CHIP 470K : CHIP 4.70K : CHIP 4.70K : CHIP 4.70K : CHIP 5.60 : RN-CP - JW (5) 11K : CHIP 0 : CHIP 11K : CHIP 0 : CHIP	75 : CHIP 75 : CHIP 75 : CHIP 470K : CHIP 4.70K : CHIP 4.7K 4.7K 4.7K 2.75 : CHIP 550 : RN-CP	75 : CHIP 75 : CHIP 75 : CHIP 470K : CHIP 470K : CHIP 4, 7K : CHIP 4, 7K : CHIP 4, 7K : CHIP 5, 10 : CHIP 5, 10 : CHIP 5, 10 : CHIP 6, 10 : CHIP 6, 10 : CHIP 6, 10 : CHIP 6, 10 : CHIP 1,	
R453 - - 820 : RN-CP 820 : RN-CP R454 0 : CHIP 0 : CHIP 100 : CHIP - <td< td=""><td>Q417 Q418 R401 R407 R408 R409 R410 R411 R411 R414 R415 R417 R418 R420 R422 R431 R432 R432 R434 R442 R443 R444 R445 R445 R445 R446 R445 R446 R445 R446 R446</td><td>2SBTOSIA 2SBTOSIA 2SBTOSIA 75 : CHIP 75 : CHIP 470K : CHIP 470K : CHIP 4. 7K : CHIP 4. 7K : CHIP 4. 7K : CHIP 5560 : RN-CP</td><td>75 : CHIP 75 : CHIP 470K : CHIP 470K : CHIP 4.7K 4.7K 4.7K 75 : CHIP 550 : RN-CP - JW (5) JW (5) 1K : CHIP 1K : CHIP 0 : CHIP</td><td>75 : CHIP 75 : CHIP 470K : CHIP 470K : CHIP 4, 7K : CHIP 680 : CHIP 680 : CHIP 680 : CHIP 100 : CHIP</td><td></td></td<>	Q417 Q418 R401 R407 R408 R409 R410 R411 R411 R414 R415 R417 R418 R420 R422 R431 R432 R432 R434 R442 R443 R444 R445 R445 R445 R446 R445 R446 R445 R446 R446	2SBTOSIA 2SBTOSIA 2SBTOSIA 75 : CHIP 75 : CHIP 470K : CHIP 470K : CHIP 4. 7K : CHIP 4. 7K : CHIP 4. 7K : CHIP 5560 : RN-CP	75 : CHIP 75 : CHIP 470K : CHIP 470K : CHIP 4.7K 4.7K 4.7K 75 : CHIP 550 : RN-CP - JW (5) JW (5) 1K : CHIP 1K : CHIP 0 : CHIP	75 : CHIP 75 : CHIP 470K : CHIP 470K : CHIP 4, 7K : CHIP 680 : CHIP 680 : CHIP 680 : CHIP 100 : CHIP	
R4S4 0 : CHIP 0 : CHIP 100 : CHIP 100 : CHIP R4S6 470 : CHIP -	Q417 Q418 R401 R407 R408 R409 R409 R410 R411 R411 R415 R417 R418 R420 R422 R431 R434 R434 R445 R445 R445 R445	2SBTOSIA 2SBTOSIA 2SBTOSIA 75 : CHIP 75 : CHIP 470K : CHIP 470K : CHIP 4. 7K : CHIP 4. 7K : CHIP 560 : RN-CP - JW (5) JW (5) 1K : CHIP 1K : CHIP 0 : CHIP 1K : CHIP 0 : CHIP 1K : CHIP 1 : CHIP	75 : CHIP 75 : CHIP 75 : CHIP 470K : CHIP 470K : CHIP 4.7K 4.7K 4.7K 4.7K 55 : CHIP 4.7K : CHIP 560 : RN-CP - JW (5) JW (5) JW (5) IK : CHIP 0 : CHIP 0 : CHIP	75 : CHIP 75 : CHIP 75 : CHIP 470K : CHIP 470K : CHIP 470K : CHIP 4, 7K : CHIP 4, 7K : CHIP 4, 7K : CHIP 100 : CHIP 100 : CHIP 680 : CHIP	
R456	Q417 Q418 R401 R407 R408 R409 R410 R411 R411 R411 R411 R411 R415 R417 R417 R418 R420 R422 R431 R432 R434 R435 R440 R445 R445 R446 R445 R445 R445 R445 R445	2SBTOSIA 2SBTOSIA 2SBTOSIA 75 : CHIP 75 : CHIP 470K : CHIP 4.70K : CHIP 4.70K : CHIP 4.70K : CHIP 550 : RN-CP - JW (5) JW (5) 1K : CHIP 0 : CHIP 1C : CHIP 0 : CHIP 10K : CHIP 10C : CHIP 10C : CHIP	75 : CHIP 75 : CHIP 75 : CHIP 470K : CHIP 4.7K 4.7K 4.7K 75 : CHIP 4.7K 550 : RN-CP - JW (5) JW (5) IK : CHIP 0 : CHIP 0 : CHIP	75 : CHIP 75 : CHIP 75 : CHIP 470K : CHIP 470K : CHIP 4.7K : CHIP 4.7K : CHIP 4.7K : CHIP 5.7K : CHIP 5.7K : CHIP 5.7K : CHIP 5.7K : CHIP 6.7K : CHIP	
R457 220 CHIP 220 CHIP -	Q417 Q418 R401 R407 R408 R409 R410 R411 R411 R411 R411 R411 R415 R417 R418 R420 R422 R431 R432 R434 R435 R440 R445 R445 R445 R445 R445 R445 R44	2SBTOSIA 2SBTOSIA 2SBTOSIA 75 : CHIP 75 : CHIP 470K : CHIP 4.70K : CHIP 4.70K : CHIP 4.70K : CHIP 550 : RN-CP - JW (5) 11K : CHIP 0 : CHIP 11K : CHIP 0 : CHIP 10 : CHIP	75 : CHIP 75 : CHIP 75 : CHIP 470K : CHIP 4.70K : CHIP 4.7K 4.7K 4.7K 2.75 : CHIP 550 : RN-CP	75 : CHIP 75 : CHIP 75 : CHIP 470K : CHIP 470K : CHIP 4, 7K : CHIP 4, 7K : CHIP 4, 7K : CHIP 4, 7K : CHIP 5, 75 : CHIP 6, 76 : CHIP 6, 76 : CHIP 100 : CHIP	
R458 220 CHIP 220 CHIP - - -	Q417 Q418 R401 R401 R407 R408 R409 R410 R411 R411 R415 R412 R418 R420 R422 R422 R424 R443 R445 R445 R445 R445 R445 R445 R44	2SBTOSIA 2SBTOSIA 2SBTOSIA 75 : CHIP 75 : CHIP 470K : CHIP 470K : CHIP 4, 7K : CHIP 4, 7K : CHIP 550 : RN-CP	75 : CHIP 75 : CHIP 75 : CHIP 470K : CHIP 470K : CHIP 4.7K 4.7K 4.7K 4.7K 55 : CHIP 4.7K : CHIP 75 : CHIP 75 : CHIP 75 : CHIP 75 : CHIP 75 : CHIP 75 : CHIP 76 : CHIP 77 : CHIP 78 : CHIP 79 : CHIP 70 : CHIP 70 : CHIP 70 : CHIP 70 : CHIP 70 : CHIP 70 : CHIP 70 : CHIP 70 : CHIP 70 : CHIP 70 : CHIP 70 : CHIP 70 : CHIP 70 : CHIP 70 : CHIP 70 : CHIP 70 : CHIP 70 : CHIP 70 : CHIP	75 : CHIP 75 : CHIP 470K : CHIP 470K : CHIP 4, 7K : CHIP 4, 7C : CHIP 680 : CHIP 680 : CHIP 680 : CHIP 680 : CHIP 100 : CHIP	
R459 ZZK	Q417 Q418 R401 R407 R408 R409 R409 R410 R411 R411 R411 R415 R412 R420 R421 R431 R432 R434 R434 R448 R448 R448 R445 R456 R456	2SBTOSIA 2SBTOSIA 2SBTOSIA 75 : CHIP 75 : CHIP 470K : CHIP 470K : CHIP 4, 7K : CHIP 4, 7K : CHIP 580 : RN-CP - JW (5) JW (5) 1K : CHIP 1K : CHIP 1K : CHIP 1C : CHIP 10 : CHIP 10K : CHIP 10K : CHIP 10K : CHIP 10K : CHIP 10K : CHIP 10K : CHIP 10K : CHIP 10K : CHIP 10K : CHIP 10K : CHIP 10K : CHIP 10K : CHIP 10K : CHIP 10K : CHIP 10K : CHIP 10C : CHIP	75 : CHIP 75 : CHIP 75 : CHIP 470K : CHIP 470K : CHIP 470K : CHIP 4. 7K 4. 7K 75 : CHIP 550 : RN-CP - JW (5) JW (5) IK : CHIP 0 : CHIP 0 : CHIP 0 : CHIP 10K : CHIP 0 : CHIP 0 : CHIP	75 : CHIP 75 : CHIP 75 : CHIP 470K : CHIP 470K : CHIP 4, 7K : CHIP 6,	
R450 330 CHIP -	Q417 Q418 R401 R407 R408 R409 R409 R410 R411 R411 R411 R411 R412 R415 R417 R418 R420 R422 R431 R443 R443 R444 R451 R445 R445 R445 R445 R456 R457	2SBTOSIA 2SBTOSIA 2SBTOSIA 75 : CHIP 75 : CHIP 470K : CHIP 470K : CHIP 4.7K : CHIP 4.7K : CHIP 4.7K : CHIP 550 : RN-CP JW (5) JW (5) JW (5)	75 : CHIP 75 : CHIP 75 : CHIP 470K : CHIP 4.7K 4.7K 4.7K 75 : CHIP 4.7K 75 : CHIP 550 : RN-CP - JW (5) JW (5) IK : CHIP 0 : CHIP	75 : CHIP 75 : CHIP 75 : CHIP 470K : CHIP 470K : CHIP 4,7K : CHIP 60 : CHIP 100 : CHIP 680 : CHIP	
R461 4.7K CHIP -	Q417 Q418 R401 R407 R408 R409 R410 R411 R411 R411 R411 R411 R415 R417 R417 R418 R417 R418 R420 R422 R431 R432 R433 R434 R435 R448 R445 R445 R445 R445 R451 R452 R453	2SBTOSIA 2SBTOSIA 2SBTOSIA 75 : CHIP 75 : CHIP 470K : CHIP 4.70K : CHIP 4.77K : CHIP 4.77K : CHIP 550 : RN-CP		75 : CHIP 75 : CHIP 75 : CHIP 470K : CHIP 470K : CHIP 4, 7K : CHIP 4, 7K : CHIP 4, 7K : CHIP 5, CHIP 5, CHIP 5, CHIP 6,	
R452 4.7K CHIP -	Q417 Q418 R401 R407 R408 R409 R409 R410 R411 R411 R415 R417 R418 R420 R422 R424 R432 R434 R445 R445 R445 R445 R445 R445 R445	2SBTOSIA 2SBTOSIA 2SBTOSIA 75 : CHIP 75 : CHIP 470K : CHIP 470K : CHIP 4. 7K : CHIP 4. 7K : CHIP 5560 : RN-CP - M* (5) J** (5) J** (5) IK : CHIP 0 : CHIP IK : CHIP 0 : CHIP IK : CHIP 10 : CHIP	75 : CHIP 75 : CHIP 75 : CHIP 470K : CHIP 470K : CHIP 4. 7K 4. 7K 75 : CHIP 550 : RN-CP	75 : CHIP 75 : CHIP 75 : CHIP 470K : CHIP 470K : CHIP 4, 7K : CHIP 580 : CHIP 680 : CHIP 680 : CHIP 100 : CHIP	
R463 680 CHIP -	Q417 Q418 R401 R407 R408 R409 R409 R410 R411 R411 R411 R415 R420 R421 R431 R432 R432 R433 R448 R450 R450 R455 R455 R455 R455 R455 R456	2SBTOSIA 2SBTOSIA 2SBTOSIA 75 : CHIP 75 : CHIP 470K : CHIP 470K : CHIP 4, 7K : CHIP 550 : RN-CP	75 : CHIP 75 : CHIP 75 : CHIP 470K : CHIP 470K : CHIP 470K : CHIP 4, 7K 4, 7K 4, 7K 55 : CHIP 4, 7K 550 : RN-CP - JW (5) JW (5) IK : CHIP 0 : CHIP 0 : CHIP 0 : CHIP 1 CHIP 1 CHIP 1 CHIP 1 CHIP 2 CHIP 2 CHIP 2 CHIP 2 CHIP 4 TO : CHIP 2 CHIP 2 CHIP 2 CHIP 2 CHIP 4 TO : CHIP 2 CHIP 2 CHIP 4 TO : CHIP 2 CHIP 4 TO : CHIP	75 : CHIP 75 : CHIP 75 : CHIP 470K : CHIP 470K : CHIP 4, 7K : CHIP 4, 7K : CHIP 4, 7K : CHIP 100 : CHIP	
R464 680 : CHIP - <td< td=""><td>Q417 Q418 R401 R407 R408 R409 R409 R409 R410 R411 R411 R411 R415 R417 R418 R420 R422 R431 R434 R443 R444 R445 R445 R445 R445 R445</td><td>2SBTOSIA 2SBTOSIA 2SBTOSIA 75 : CHIP 75 : CHIP 470K : CHIP 470K : CHIP 4. 7K : CHIP 4. 7K : CHIP 5. : CHIP 6. : CHIP 7. : CHIP</td><td>75 : CHIP 75 : CHIP 75 : CHIP 470K : CHIP 470K : CHIP 4. 7K 4. 7K 75 : CHIP 550 : RN-CP - JW (5) JW (5) IK : CHIP 0 : CHIP 0 : CHIP 0 : CHIP 10K : CHIP</td><td>75 : CHIP 75 : CHIP 75 : CHIP 470K : CHIP 470K : CHIP 4, 7K : CHIP 4, 7K : CHIP 4, 7K : CHIP 470 : RN-CP 100 : CHIP 580 : CHIP 580 : CHIP 680 : CHIP 100 : CHIP</td><td></td></td<>	Q417 Q418 R401 R407 R408 R409 R409 R409 R410 R411 R411 R411 R415 R417 R418 R420 R422 R431 R434 R443 R444 R445 R445 R445 R445 R445	2SBTOSIA 2SBTOSIA 2SBTOSIA 75 : CHIP 75 : CHIP 470K : CHIP 470K : CHIP 4. 7K : CHIP 4. 7K : CHIP 5. : CHIP 6. : CHIP 7. : CHIP	75 : CHIP 75 : CHIP 75 : CHIP 470K : CHIP 470K : CHIP 4. 7K 4. 7K 75 : CHIP 550 : RN-CP - JW (5) JW (5) IK : CHIP 0 : CHIP 0 : CHIP 0 : CHIP 10K : CHIP	75 : CHIP 75 : CHIP 75 : CHIP 470K : CHIP 470K : CHIP 4, 7K : CHIP 4, 7K : CHIP 4, 7K : CHIP 470 : RN-CP 100 : CHIP 580 : CHIP 580 : CHIP 680 : CHIP 100 : CHIP	
R475 IK CHIP IK CHIP - - -	0417 0418 R401 R407 R408 R409 R409 R411 R411 R411 R411 R411 R415 R417 R417 R418 R419 R420 R422 R431 R441 R445 R445 R445 R445 R446 R450 R457 R458 R459 R457 R458 R459 R458	2SBTOSIA 2SBTOSIA 2SBTOSIA 75 : CHIP 75 : CHIP 470K : CHIP 4.70K : CHIP 4.70K : CHIP 4.70K : CHIP 550 : RN-CP		75 : CHIP 75 : CHIP 75 : CHIP 470K : CHIP 470K : CHIP 4,7K : CHIP 4,7K : CHIP 4,7K : CHIP 5,7K : CHIP 5,7K : CHIP 5,7K : CHIP 5,7K : CHIP 6,7K : CHIP	
R476 22K CHIP -	Q417 Q418 R401 R401 R407 R408 R409 R410 R411 R411 R411 R415 R412 R420 R422 R432 R434 R435 R445 R446 R445 R446 R450 R457 R458 R459 R459 R459 R459 R459 R463	2SB709A 2SB709A 75 : CHIP 75 : CHIP 75 : CHIP 470K : CHIP 470K : CHIP 470K : CHIP 4.7K : CHIP 4.7K : CHIP 6. : CHIP 6. : CHIP 6. : CHIP 7. : CHIP 8. : CHIP 8. : CHIP 8. : CHIP 9. : CHIP 9. : CHIP 9. : CHIP 10K : CHIP	75 : CHIP 75 : CHIP 75 : CHIP 470K : CHIP 4.70K : CHIP 4.7K 4.7K 4.7K	75 : CHIP 75 : CHIP 75 : CHIP 470K : CHIP 470K : CHIP 4.7K : CHIP 4.7K : CHIP 4.7K : CHIP 4.7K : CHIP 5.7 : CHIP 5.7 : CHIP 5.7 : CHIP 5.7 : CHIP 6.7 : CH	
R478 470 CHIP 470 CHIP - - -	Q417 Q418 R401 R407 R408 R409 R409 R409 R410 R411 R411 R411 R415 R420 R427 R427 R427 R428 R431 R431 R431 R431 R431 R431 R431 R432 R432 R433 R448 R445 R450 R451 R452 R453 R458 R459 R456	2SBTOSIA 2SBTOSIA 2SBTOSIA 75 : CHIP 75 : CHIP 470K : CHIP 470K : CHIP 4, 7K : CHIP 560 : RN-CP	75 : CHIP 75 : CHIP 75 : CHIP 470K : CHIP 470K : CHIP 470K : CHIP 4. 7K 4. 7K 4. 7K 5: CHIP 5: CHIP 6: CHIP 6: CHIP 7: CHIP	75 : GHIP 75 : CHIP 75 : CHIP 76 : CHIP 470K : CHIP 470K : CHIP 4, 7K : CHIP 4, 7K : CHIP 4, 7K : CHIP 100 : CHIP	
R418 470 CHIP 470 CHIP - - -	Q417 Q418 R401 R407 R408 R409 R409 R410 R411 R411 R411 R411 R415 R415 R417 R418 R420 R422 R431 R443 R443 R443 R443 R445 R445 R445 R445	2SBTOSIA 2SBTOSIA 2SBTOSIA 75 : CHIP 75 : CHIP 470K : CHIP 470K : CHIP 4. 7K : CHIP 560 : RN-CP - JW (5) JW (5) 1K : CHIP 1K : CHIP 1K : CHIP 1K : CHIP 1K : CHIP 1K : CHIP 10K : CHIP 20 : CHIP 20 : CHIP 220 : CHIP 230 : CHIP 24. 7K : CHIP 4. 7K : CHIP 680 : CHIP 680 : CHIP 680 : CHIP		75 : CHIP 75 : CHIP 75 : CHIP 470K : CHIP 470K : CHIP 4, 7K : CHIP 4, 7K : CHIP 4, 7K : CHIP 470 : RN-CP 100 : CHIP 580 : CHIP 580 : CHIP 680 : CHIP 100 : CHIP	
R480 22K CHIP -	Q417 Q418 R401 R407 R408 R409 R409 R410 R411 R411 R411 R415 R412 R420 R422 R432 R434 R435 R446 R449 R449 R449 R449 R449 R449 R449	2SBTOSIA 2SBTOSIA 2SBTOSIA 75 : CHIP 75 : CHIP 470K : CHIP 470K : CHIP 470K : CHIP 4. 7K : CHIP 4. 7K : CHIP 6. : CHIP 6. : CHIP 6. : CHIP 7. : CHIP 8. : CHIP 8. : CHIP 8. : CHIP 8. : CHIP 9. : CHIP 9. : CHIP 10K : CHIP	75 : CHIP 75 : CHIP 75 : CHIP 470K : CHIP 4.70K : CHIP 4.7K 4.7K 4.7K 2.75 : CHIP 550 : RN-CP	75 : CHIP 75 : CHIP 75 : CHIP 470K : CHIP 470K : CHIP 4,7K : CHIP 4,7K : CHIP 4,7K : CHIP 4,7K : CHIP 4,7C : CHIP 50 : CHIP	
R481 2ZK : CHIP - - - - R488 ! ZZK : CHIP - - - - R489 ! ZZK : CHIP - - - - R490 O : CHIP 0 : CHIP - - R491 O : CHIP 0 : CHIP - -	Q417 Q418 R401 R407 R408 R409 R409 R410 R411 R411 R411 R411 R415 R420 R427 R422 R423 R423 R431 R431 R435 R440 R450 R451 R452 R453 R458 R459 R456 R451 R452 R453 R458 R459 R450 R461 R461 R462 R463 R463 R463 R463 R463 R463 R463 R463	2SBTOSIA 2SBTOSIA 2SBTOSIA 75 : CHIP 75 : CHIP 76 : CHIP 470K : CHIP 470K : CHIP 4, 7K : CHIP 4, 7K : CHIP 580 : RN-CP	75 : CHIP 75 : CHIP 75 : CHIP 470K : CHIP 470K : CHIP 470K : CHIP 4, 7K 4, 7K 4, 7K 5 : CHIP 4, 7K 75 : CHIP 75 : CHIP 75 : CHIP 75 : CHIP 75 : CHIP 75 : CHIP 75 : CHIP 75 : CHIP 75 : CHIP 75 : CHIP 75 : CHIP 76 : CHIP 77 : CHIP 78 : CHIP 79 : CHIP 70 : CHIP 70 : CHIP 70 : CHIP 70 : CHIP 71 : CHIP 72 : CHIP 73 : CHIP 74 : CHIP 75 : CHIP 76 : CHIP 77 : CHIP 78 : CHIP 79 : CHIP 70 : CHIP 70 : CHIP 70 : CHIP 71 : CHIP 72 : CHIP 72 : CHIP 73 : CHIP 74 : CHIP 75 : CHIP 76 : CHIP 77 : CHIP 78 : CHIP 79 : CHIP 70 : CHIP 70 : CHIP 70 : CHIP 70 : CHIP 71 : CHIP 72 : CHIP 72 : CHIP 72 : CHIP 74 : CHIP 75 : CHIP 76 : CHIP 77 : CHIP 77 : CHIP	75 : CHIP 75 : CHIP 75 : CHIP 470K : CHIP 470K : CHIP 4, 7K : CHIP 4, 7K : CHIP 4, 7K : CHIP 4, 7K : CHIP 5, 75 : CHIP 5, 76 : CHIP 6, 77 : CHIP 6,	
R488 ZZK : CHIP - - - R489 : ZZK : CHIP - - - R490 : CHIP 0 : CHIP - - R491 0 : CHIP - -	Q417 Q418 R401 R407 R408 R409 R409 R410 R411 R411 R411 R411 R415 R420 R422 R431 R432 R434 R450 R450 R450 R451 R456 R457 R458 R456 R457 R458 R460 R461 R462 R463 R463 R463 R4648 R463 R4661 R4661 R4661 R4661 R4661 R4661 R4663 R4661 R4663 R4778 R4778 R4778 R4778 R4778	2SBTOSIA 2SBTOSIA 2SBTOSIA 75 : CHIP 75 : CHIP 76 : CHIP 470K : CHIP 4, 7K : CHIP 4, 7K : CHIP 580 : RN-CP - JW (5) JW (5) 1K : CHIP 1K : CHIP 1K : CHIP 1K : CHIP 10K : CHIP 10K : CHIP 10K : CHIP 10K : CHIP 20 : CHIP 20 : CHIP 20 : CHIP 220 : CHIP	75 : CHIP 75 : CHIP 75 : CHIP 470K : CHIP 470K : CHIP 470K : CHIP 4, 7K 4, 7K 4, 7K 5 : CHIP 4, 7K 75 : CHIP 75 : CHIP 75 : CHIP 75 : CHIP 75 : CHIP 75 : CHIP 75 : CHIP 75 : CHIP 75 : CHIP 75 : CHIP 75 : CHIP 76 : CHIP 77 : CHIP 78 : CHIP 79 : CHIP 70 : CHIP 70 : CHIP 70 : CHIP 70 : CHIP 71 : CHIP 72 : CHIP 73 : CHIP 74 : CHIP 75 : CHIP 76 : CHIP 77 : CHIP 78 : CHIP 79 : CHIP 70 : CHIP 70 : CHIP 70 : CHIP 71 : CHIP 72 : CHIP 72 : CHIP 73 : CHIP 74 : CHIP 75 : CHIP 76 : CHIP 77 : CHIP 78 : CHIP 79 : CHIP 70 : CHIP 70 : CHIP 70 : CHIP 70 : CHIP 71 : CHIP 72 : CHIP 72 : CHIP 72 : CHIP 74 : CHIP 75 : CHIP 76 : CHIP 77 : CHIP 77 : CHIP		
R489 2ZK : CHIP - - - R490 0 : CHIP 0 : CHIP - - R491 0 : CHIP 0 : CHIP - -	Q417 Q418 R401 R407 R408 R409 R409 R409 R410 R411 R411 R411 R411 R411 R412 R415 R417 R418 R420 R422 R431 R443 R443 R445 R445 R446 R451 R452 R453 R458 R457 R458 R457 R458 R457 R458 R461 R462 R461 R462 R461 R462 R461 R462 R463	2SBTOSIA 2SBTOSIA 2SBTOSIA 75 : CHIP 75 : CHIP 76 : CHIP 470K : CHIP 470K : CHIP 4.7K : CHIP 4.7K : CHIP 4.7K : CHIP 75 : CHIP 75 : CHIP 75 : CHIP 76 : CHIP 77 : CHIP 78 : CHIP 79 : CHIP 70 : CHIP 70 : CHIP 70 : CHIP 70 : CHIP 71 : CHIP 71 : CHIP 72 : CHIP 73 : CHIP 74 : CHIP 75 : CHIP 76 : CHIP 77 : CHIP 78 : CHIP 79 : CHIP 79 : CHIP 70 : CHIP 70 : CHIP 70 : CHIP 71 : CHIP 72 : CHIP 72 : CHIP 73 : CHIP 74 : CHIP 75 : CHIP 76 : CHIP 77 : CHIP 78 : CHIP 79 : CHIP 70 : CHIP 70 : CHIP 70 : CHIP 71 : CHIP 72 : CHIP 72 : CHIP 72 : CHIP 73 : CHIP 74 : CHIP 75 : CHIP 76 : CHIP 77 : CHIP 77 : CHIP 77 : CHIP 78 : CHIP 79 : CHIP 70 : CHIP 70 : CHIP 70 : CHIP 70 : CHIP 71 : CHIP 72 : CHIP 72 : CHIP 74 : CHIP 75 : CHIP 76 : CHIP 77 : CHIP	75 : CHIP 75 : CHIP 75 : CHIP 470K : CHIP 470K : CHIP 470K : CHIP 4. 7K 4. 7K 4. 7K 550 : RN-CP - JW (5) JW (5) IK : CHIP 0 : CHIP 0 : CHIP 1K : CHIP 0 : CHIP 1K : CHIP 0 : CHIP 0 : CHIP 1K : CHIP 0 : CHIP 10K : CHIP	75 : CHIP 75 : CHIP 75 : CHIP 470K : CHIP 470K : CHIP 4, 7K : CHIP 4, 7K : CHIP 4, 7K : CHIP 4, 7K : CHIP 470 : RN-CP 100 : CHIP 580 : CHIP 580 : CHIP 680 : CHIP 680 : CHIP 100 : CHIP	
R490 0 : CHIP 0 : CHIP R491 0 : CHIP 0 : CHIP	0417 0418 R401 R407 R408 R409 R409 R409 R411 R411 R411 R411 R415 R415 R417 R418 R420 R422 R431 R443 R443 R443 R443 R445 R445 R445 R445	2SBTOSIA 2SBTOSIA 2SBTOSIA 75 : CHIP 75 : CHIP 470K : CHIP 470K : CHIP 4, 7K : CHIP 4, 7K : CHIP 4, 7K : CHIP 550 : RN-CP		75 : CHIP 75 : CHIP 75 : CHIP 470K : CHIP 470K : CHIP 4,7K : CHIP 4,7K : CHIP 4,7K : CHIP 4,7K : CHIP 5,7K : CHIP 5,7K : CHIP 5,7K : CHIP 6,7K : CHIP	
R491 0 : CHIP 0 : CHIP	0417 0418 R401 R407 R408 R409 R409 R409 R411 R411 R411 R411 R411 R415 R420 R422 R422 R423 R431 R431 R435 R440 R450 R451 R452 R453 R456 R457 R458 R459 R463 R463 R463 R463 R463 R463 R463 R463	2SBTOSIA 2SBTOSIA 2SBTOSIA 75 : CHIP 75 : CHIP 76 : CHIP 470K : CHIP 470K : CHIP 4, 7K : CHIP 4, 7K : CHIP 580 : RN-CP	75 : CHIP 75 : CHIP 75 : CHIP 75 : CHIP 470K : CHIP 470K : CHIP 4. 7K 4. 7K 4. 7K 4. 7K 55 : CHIP 4. 7K : CHIP 75 : CHIP 75 : CHIP 75 : CHIP 75 : CHIP 76 : CHIP 77 : CHIP 78 : CHIP 79 : CHIP 70 : CHIP 70 : CHIP 70 : CHIP 70 : CHIP 70 : CHIP 70 : CHIP 70 : CHIP 70 : CHIP 70 : CHIP 70 : CHIP 70 : CHIP 70 : CHIP 70 : CHIP 70 : CHIP 70 : CHIP 70 : CHIP 710 : CHIP 720 : CHIP	75 : GHIP 75 : CHIP 75 : CHIP 76 : CHIP 470K : CHIP 470K : CHIP 4, 7K : CHIP 4, 7K : CHIP 4, 7K : CHIP 100 : CHIP	
	0417 0418 R401 R407 R408 R409 R409 R409 R411 R411 R411 R411 R415 R420 R422 R431 R432 R432 R433 R440 R450 R450 R451 R456 R457 R458 R460 R461 R461 R463 R463 R464 R479 R479 R480 R489	2SBTOSIA 2SBTOSIA 2SBTOSIA 75 : CHIP 75 : CHIP 76 : CHIP 470K : CHIP 4, 7K : CHIP 4, 7K : CHIP 580 : RN-CP - JW (5) JW (5) 1K : CHIP 1K : CHIP 1K : CHIP 1K : CHIP 10 : CHIP 10 : CHIP 10K : CHIP 10K : CHIP 10K : CHIP 20 : CHIP 20 : CHIP 20 : CHIP 470 : CHIP 470 : CHIP 220 : CHIP	75 : CHIP 75 : CHIP 75 : CHIP 470K : CHIP 470K : CHIP 470K : CHIP 4. 7K 4. 7K 4. 7K 550 : RN-CP - JW (5) JW (5) IK : CHIP 0 : CHIP 0 : CHIP 1K : CHIP 0 : CHIP 1K : CHIP 0 : CHIP 10K : CHIP 0 : CHIP 10K : CHIP	75 : CHIP 75 : CHIP 75 : CHIP 76 : CHIP 470K : CHIP 470K : CHIP 4, 7K : CHIP 680 : CHIP	
лчэд ј	Q417 Q418 R401 R407 R408 R409 R409 R409 R409 R411 R411 R411 R415 R412 R418 R412 R418 R419 R419 R419 R419 R4490 R407 R408 R407 R408 R407 R408 R409	2SBTOSIA 2SBTOSIA 2SBTOSIA 75 : CHIP 75 : CHIP 76 : CHIP 470K : CHIP 4.7K : CHIP 4.7K : CHIP 4.7K : CHIP 75 : CHIP 75 : CHIP 75 : CHIP 75 : CHIP 76 : CHIP 77 : CHIP 78 : CHIP 79 : CHIP 70 : CHIP 70 : CHIP 70 : CHIP 70 : CHIP 71 : CHIP 72 : CHIP 73 : CHIP 74 : CHIP 75 : CHIP 76 : CHIP 77 : CHIP 78 : CHIP 79 : CHIP 79 : CHIP 70 : CHIP 70 : CHIP 70 : CHIP 71 : CHIP 72 : CHIP 73 : CHIP 74 : CHIP 75 : CHIP 76 : CHIP 77 : CHIP 78 : CHIP 79 : CHIP 70 : CHIP 70 : CHIP 70 : CHIP 71 : CHIP 72 : CHIP 72 : CHIP 72 : CHIP 73 : CHIP 74 : CHIP 75 : CHIP	75 : CHIP 75 : CHIP 75 : CHIP 470K : CHIP 4.7K 4.7K 4.7K 75 : CHIP 4.7K : CHIP 550 : RN-CP - JW (5) JW (5) IK : CHIP 0 : CHIP 0 : CHIP 1 CHIP 0 : CHIP 1 CH	75 : CHIP 75 : CHIP 75 : CHIP 470K : CHIP 470K : CHIP 4,7K : CHIP 4,7K : CHIP 4,7K : CHIP 470 : RN-CP 100 : CHIP 580 : CHIP 580 : CHIP 680 : CHIP 100 : CHIP	
	0417 0418 R401 R407 R408 R409 R409 R410 R411 R411 R411 R411 R411 R411 R411	2SBTOSIA 2SBTOSIA 2SBTOSIA 75 : CHIP 75 : CHIP 470K : CHIP 470K : CHIP 4, 7K : CHIP 4, 7K : CHIP 4, 7K : CHIP 550 : RN-CP		75 : CHIP 75 : CHIP 75 : CHIP 470K : CHIP 470K : CHIP 4,7K : CHIP 4,7K : CHIP 4,7K : CHIP 4,7K : CHIP 4,7C : CHIP 50 : CHIP	





5.2 Vp-p(H)

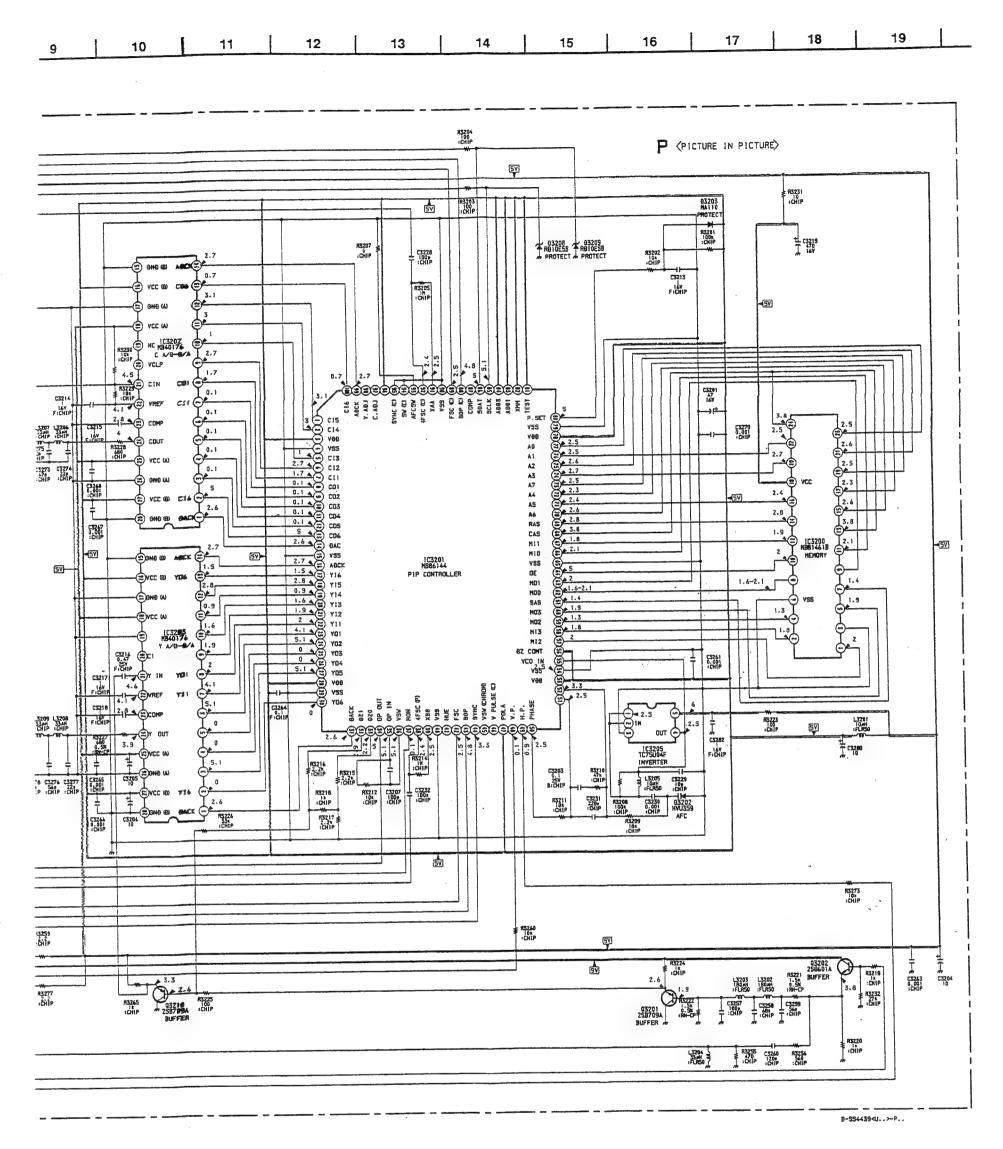
0.8 Vp-p(H)

7

5.2 Vp-p(H)

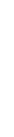
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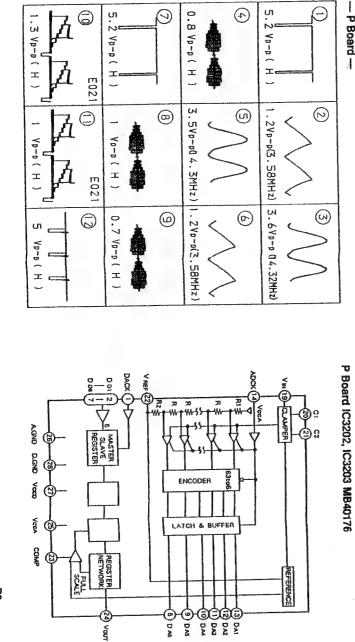
- P Board -



P

D

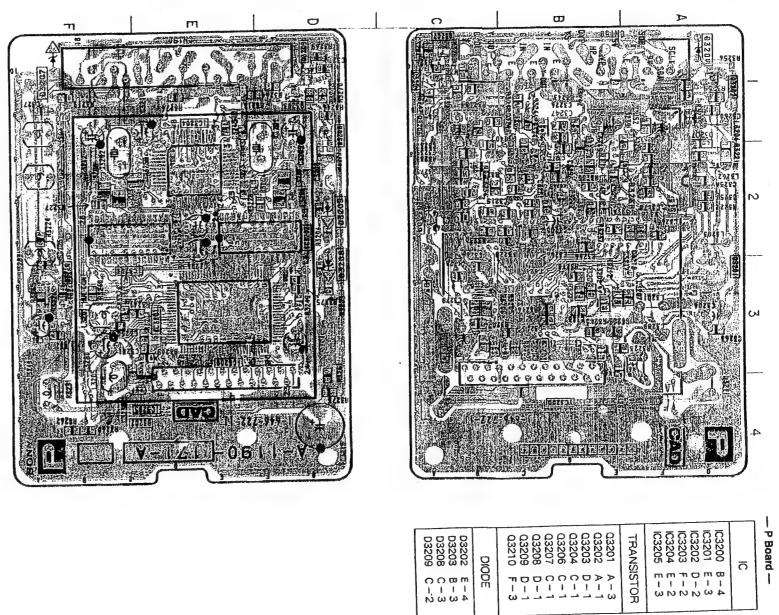


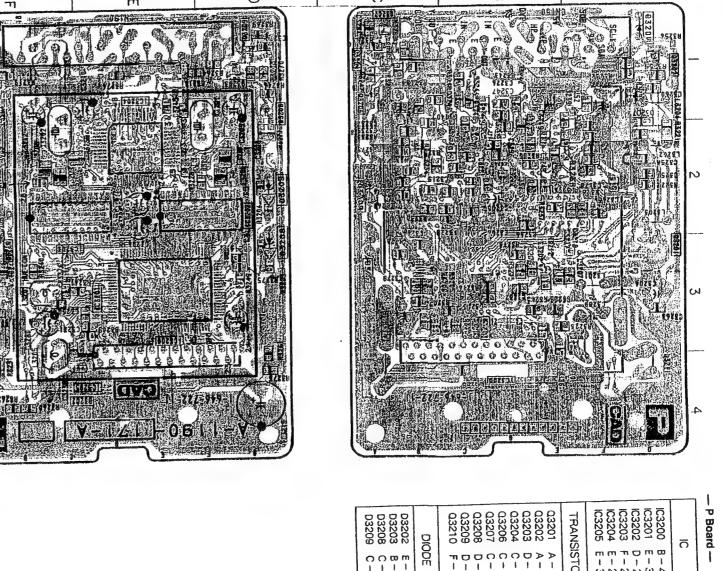


4

P Board -

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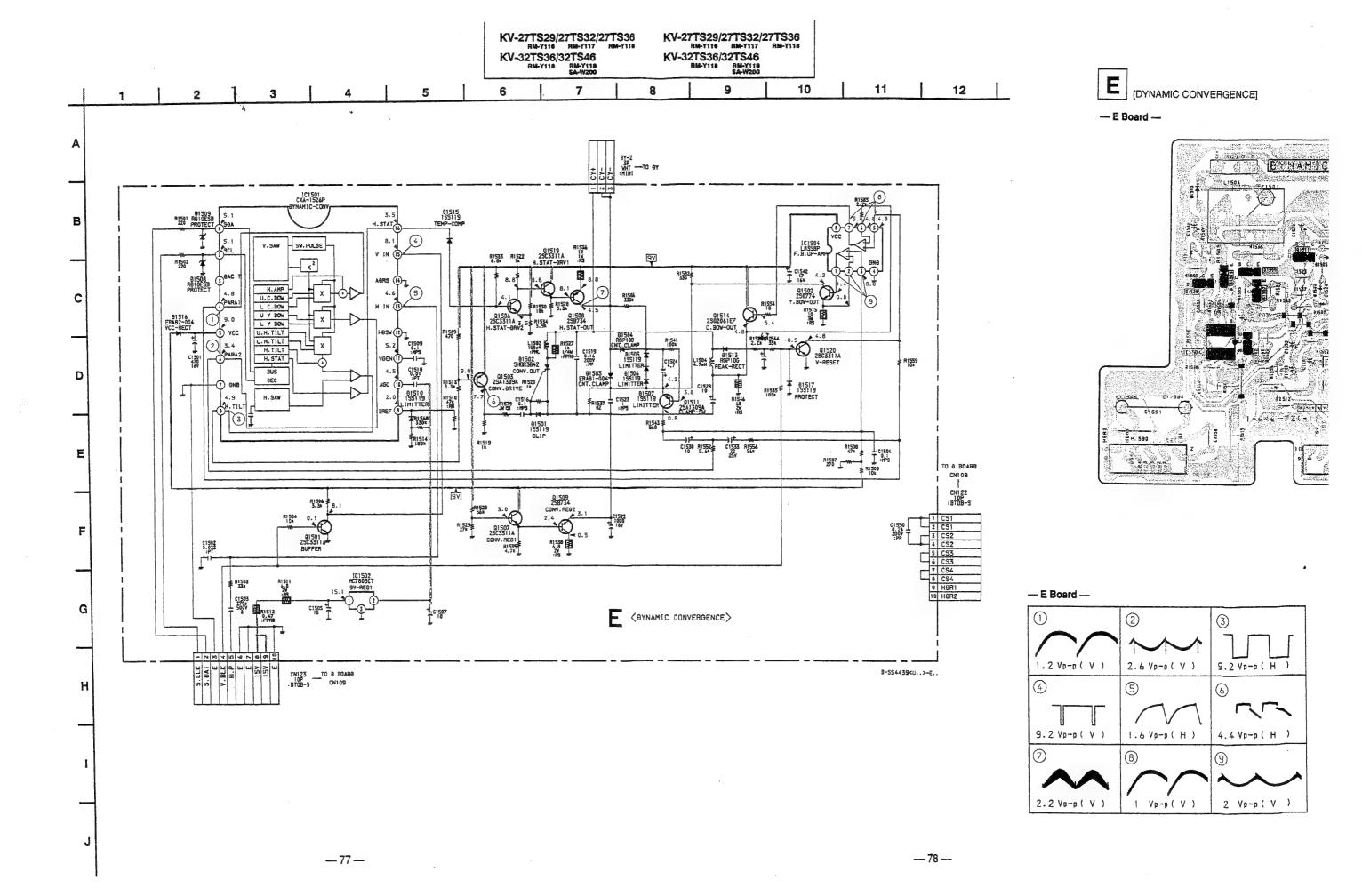




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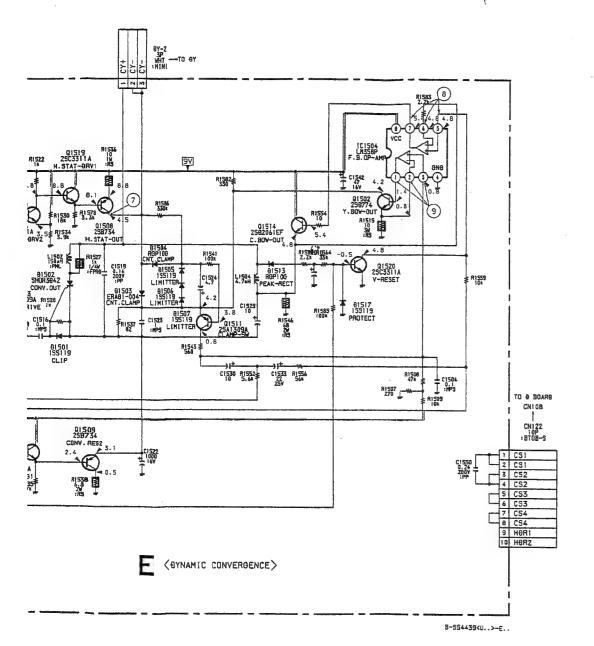
| [PICTURE IN PICTURE]

— 76 **—**



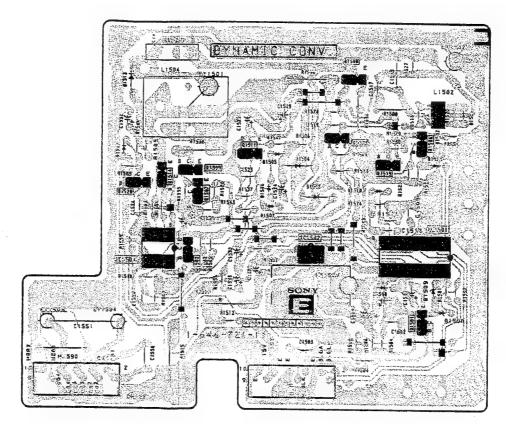
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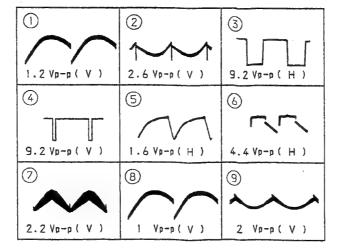


[DYNAMIC CONVERGENCE]

- E Board -

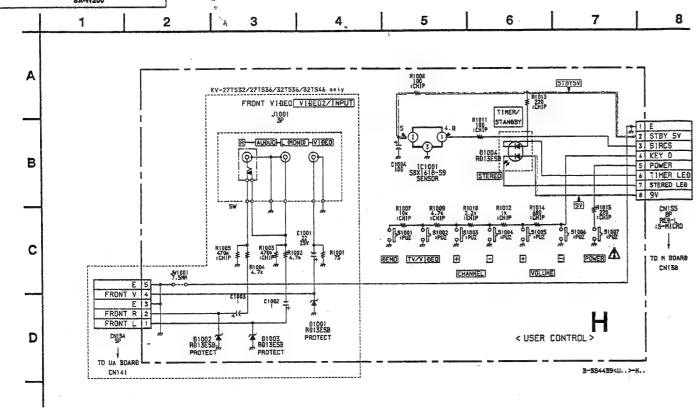


— E Board —



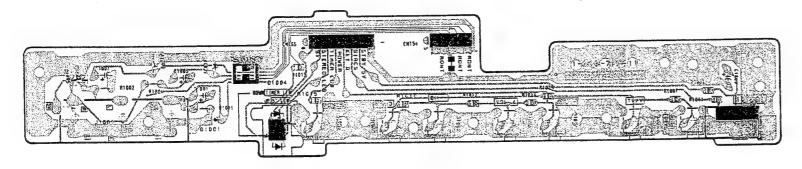
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H [USER CONTROL]

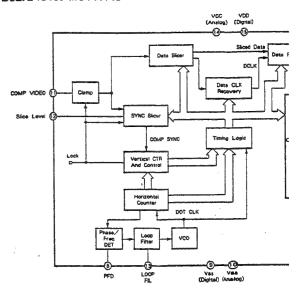
- H Board -



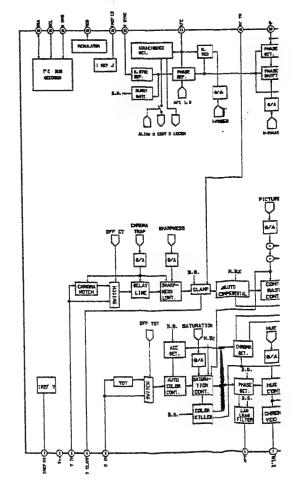
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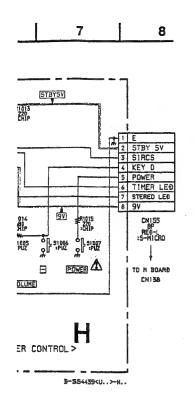
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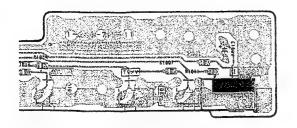
M Board IC150 MC144143



M Board IC301 CXA1465AS



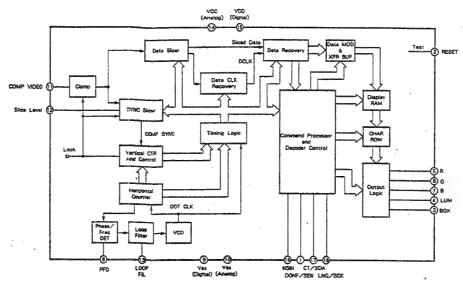


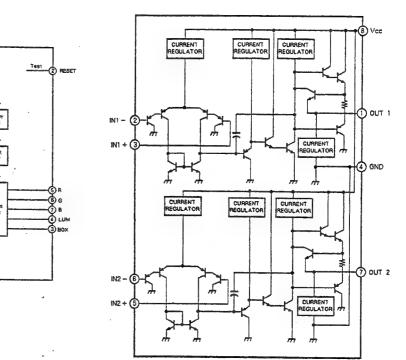


M Board IC150 MC144143

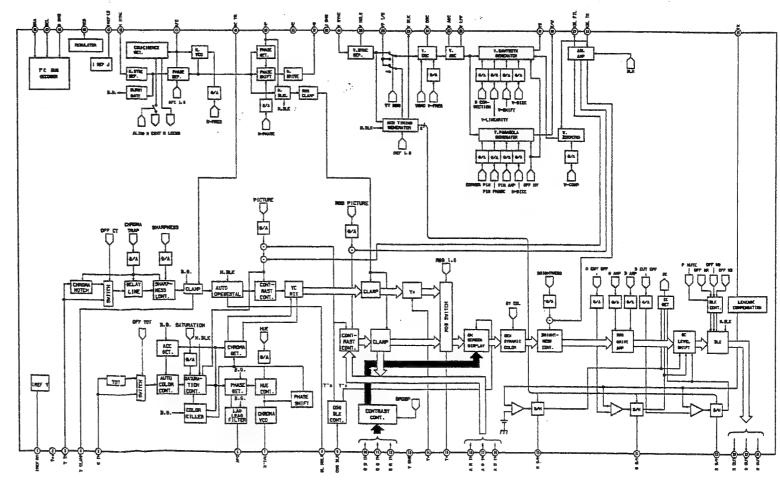
KV-27TS29/27TS32/27TS36 RM-Y116 RM-Y117 RM-Y118 KV-32TS36/32TS46 RM-Y118 RM-Y118 SA-W200

M Board IC202 LM358PS



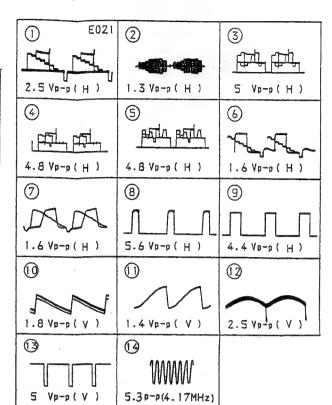


M Board IC301 CXA1465AS



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	T
IC	DIODE
IC101 C-3 IC102 B-2 IC150 B-4 IC201 C-7 IC202 G-7 IC301 C-5 TRANSISTOR Q001 F-3 Q002 D-4 Q004 C-2 Q005 C-2 Q151 D-4 Q201 A-7 Q301 I-6 Q302 I-6 Q307 G-4 Q308 F-5 Q314 E-4	D001 E-3 D002 E-3 D004 F-4 D005 D-2 D006 B-2 D007 B-2 D008 B-2 D150 C-4 D201 J-7 D202 I-7 D205 C-7 D206 B-6 D301 B-5 D304 B-5 D306 F-4



В

C

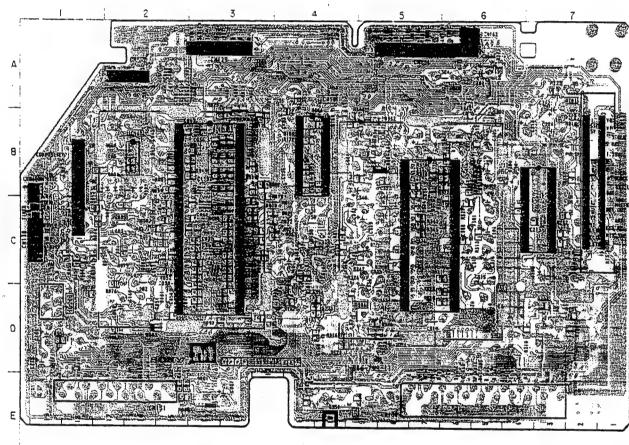
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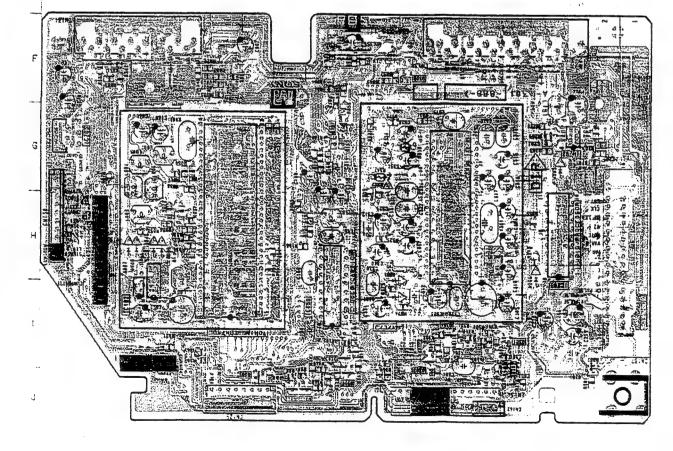
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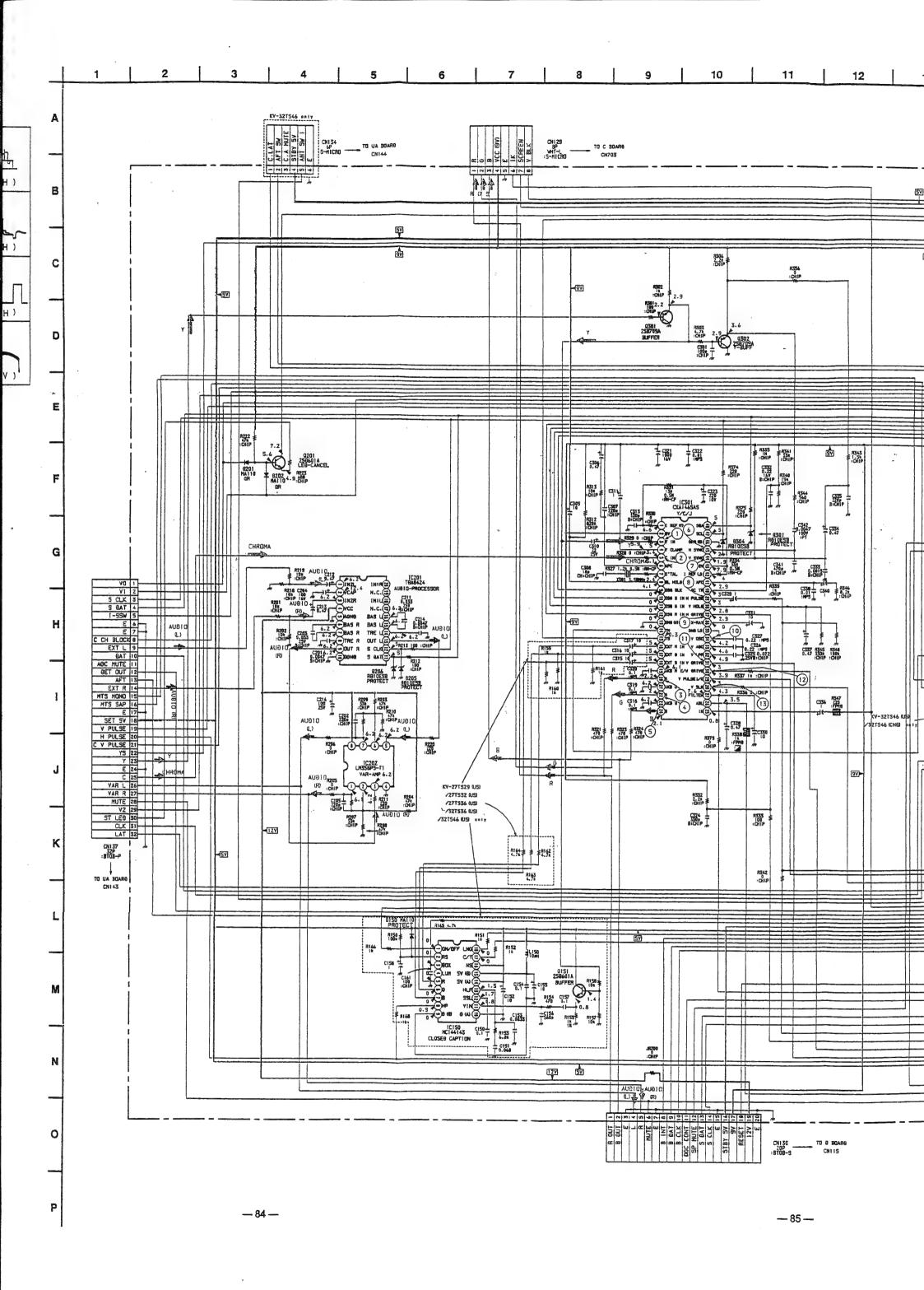
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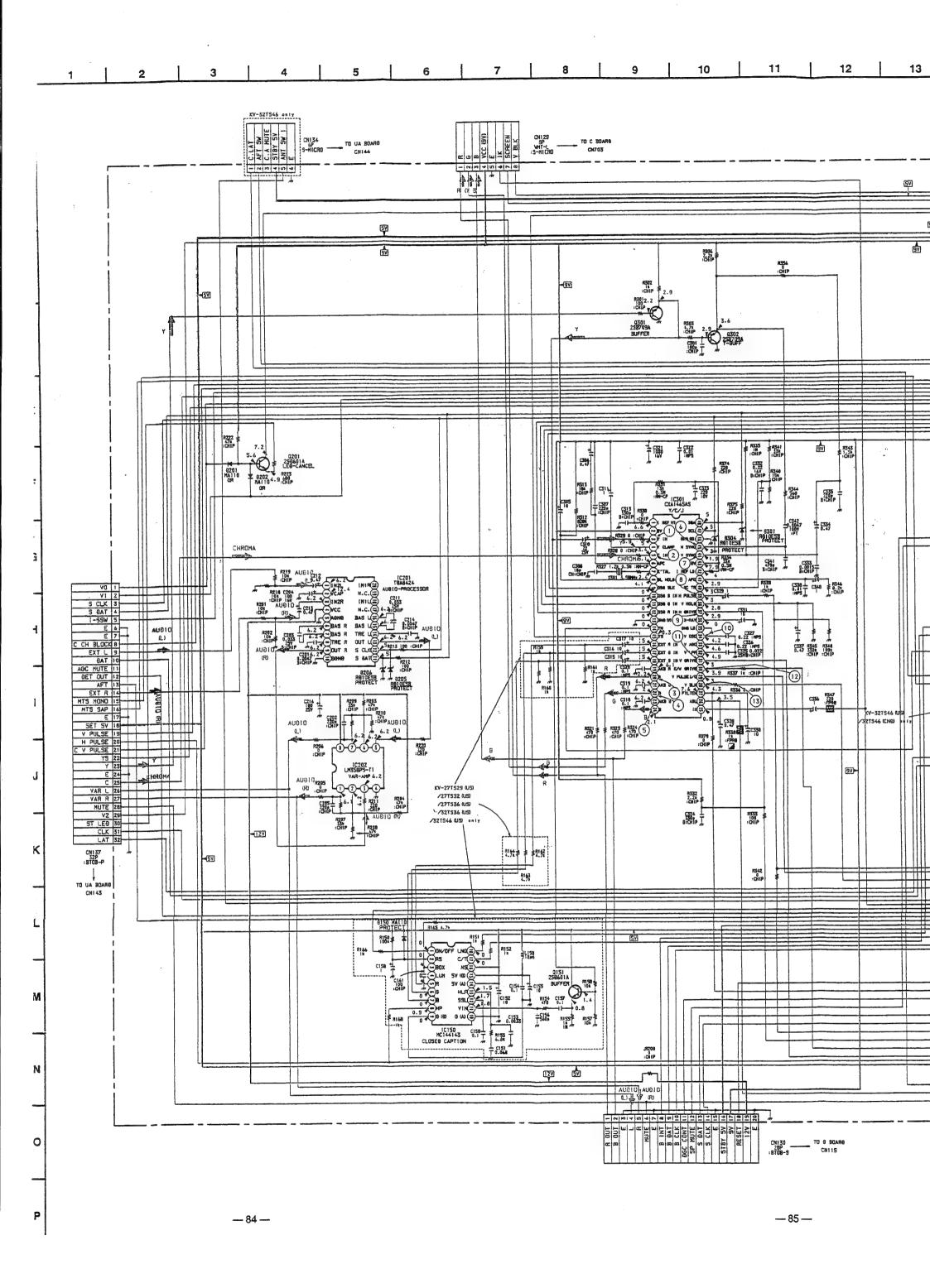
[Y/C/J, CONTROL, AUDIO CONTROL,]

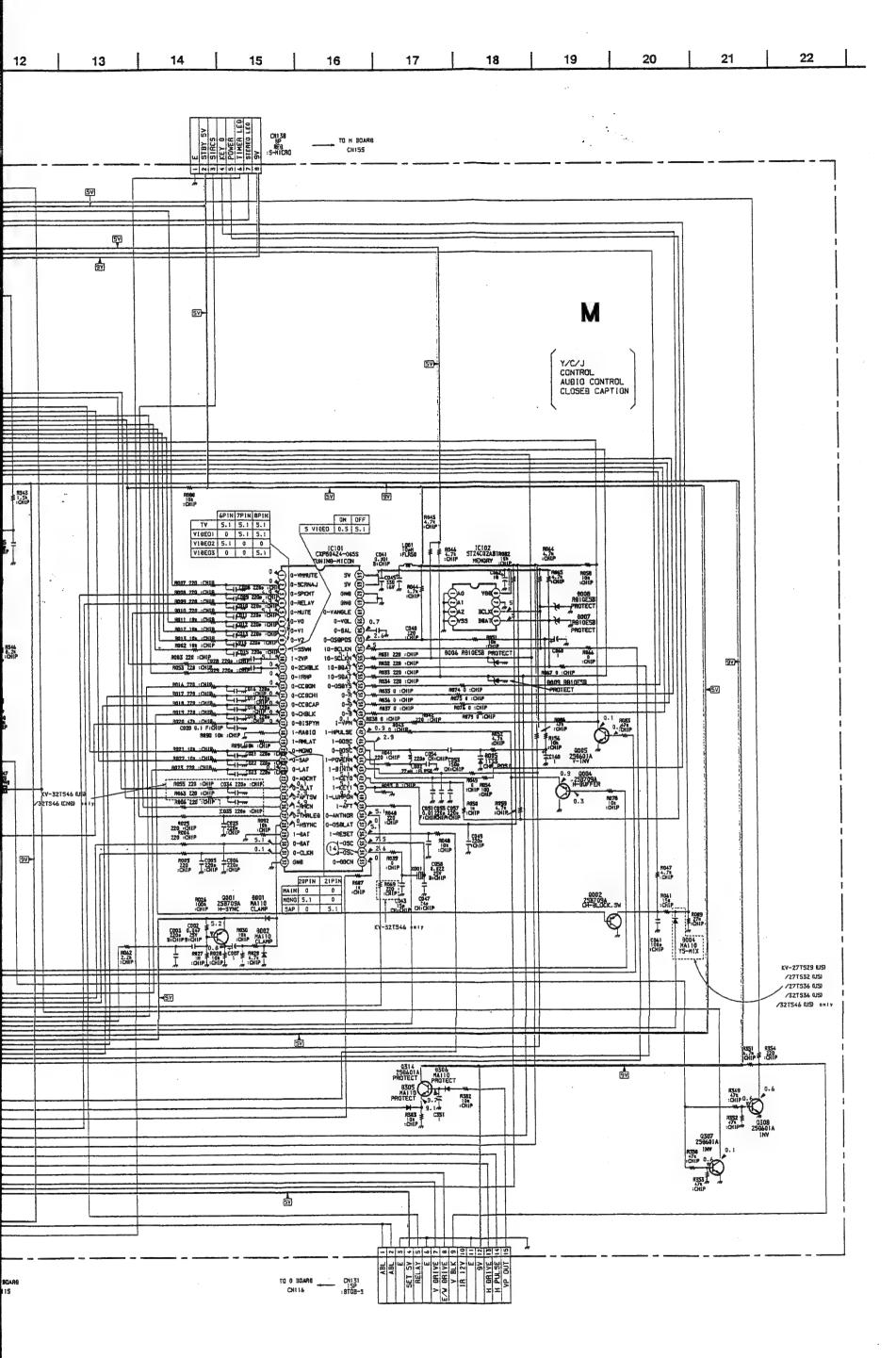
- M Board -

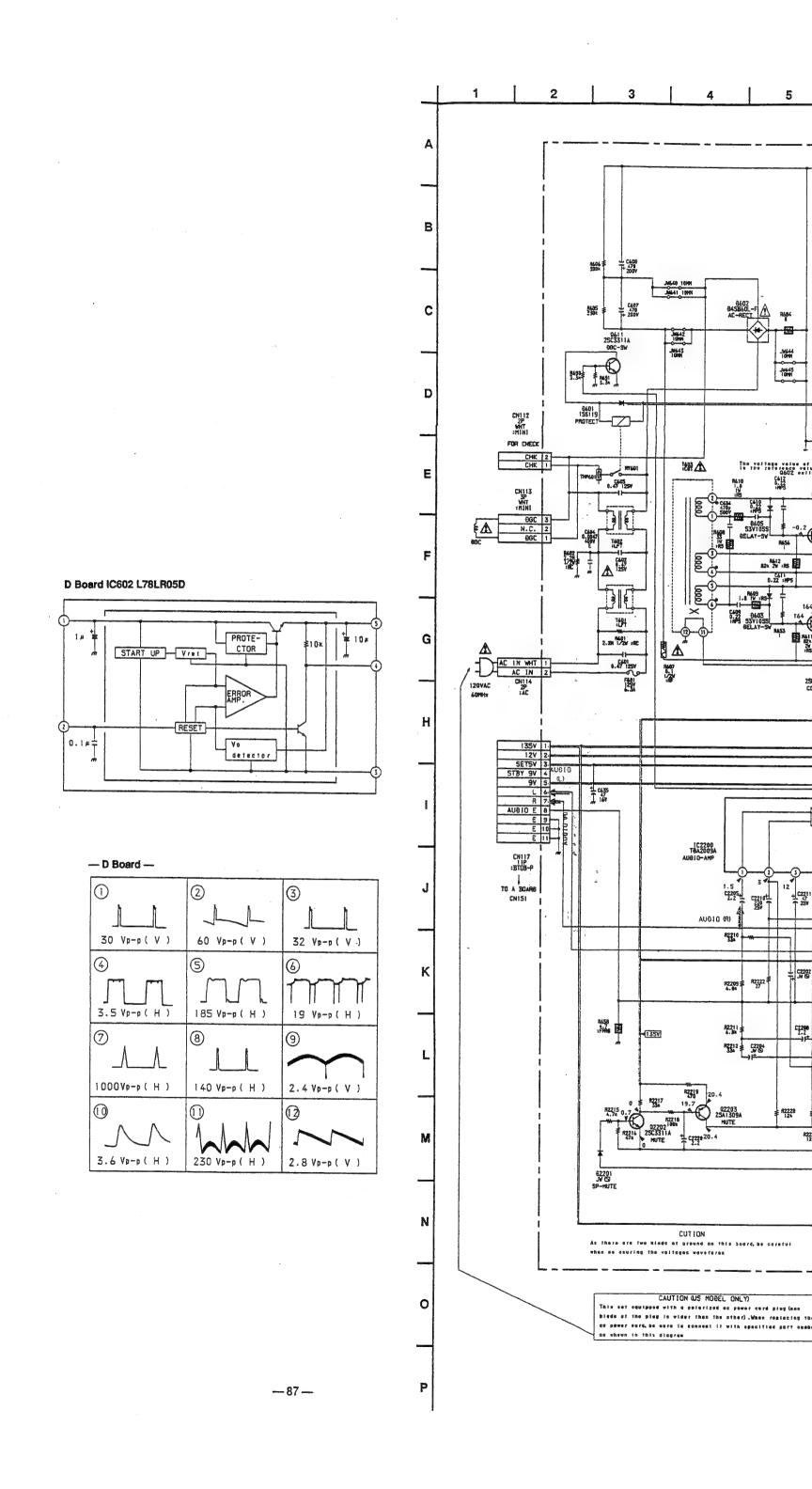


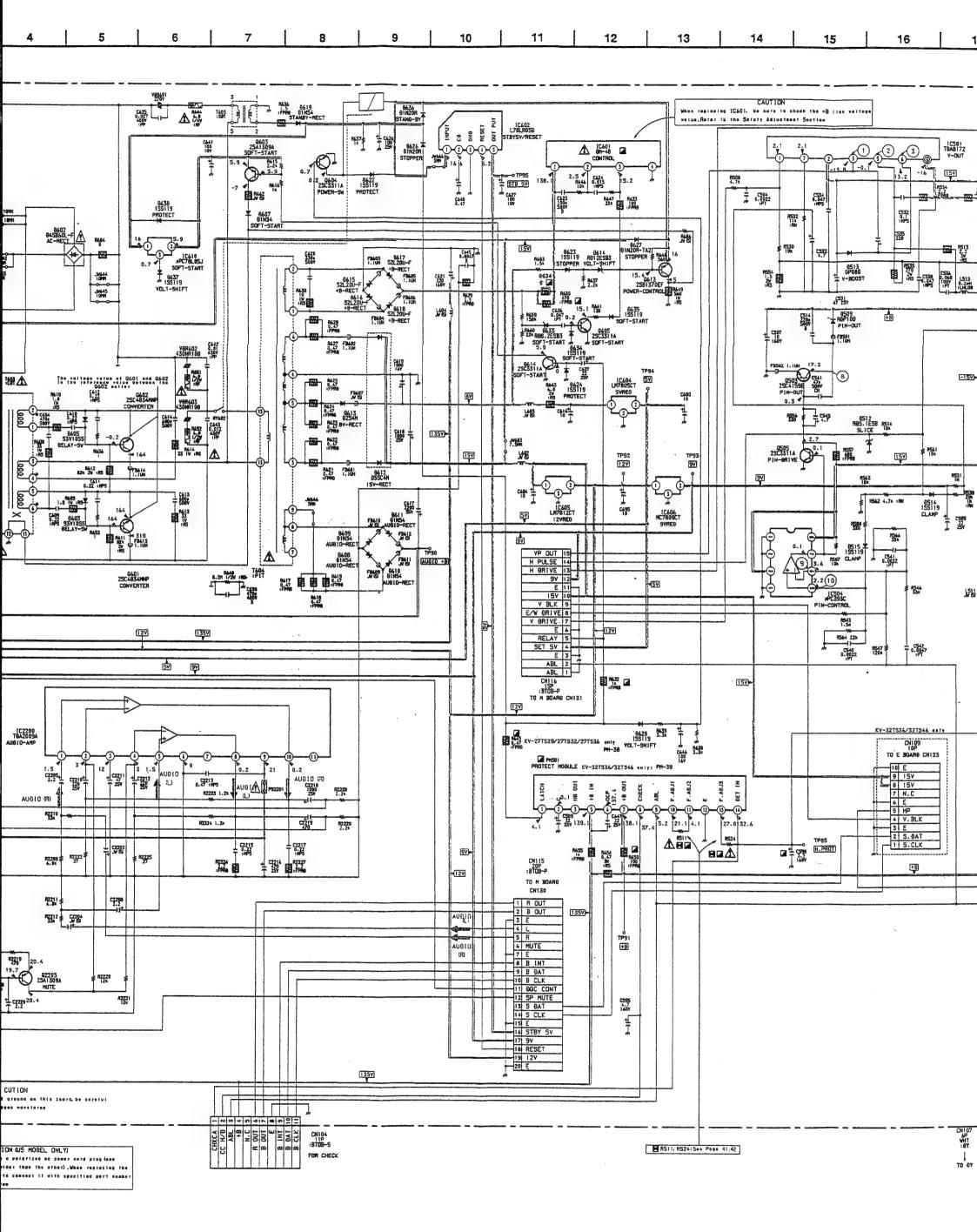


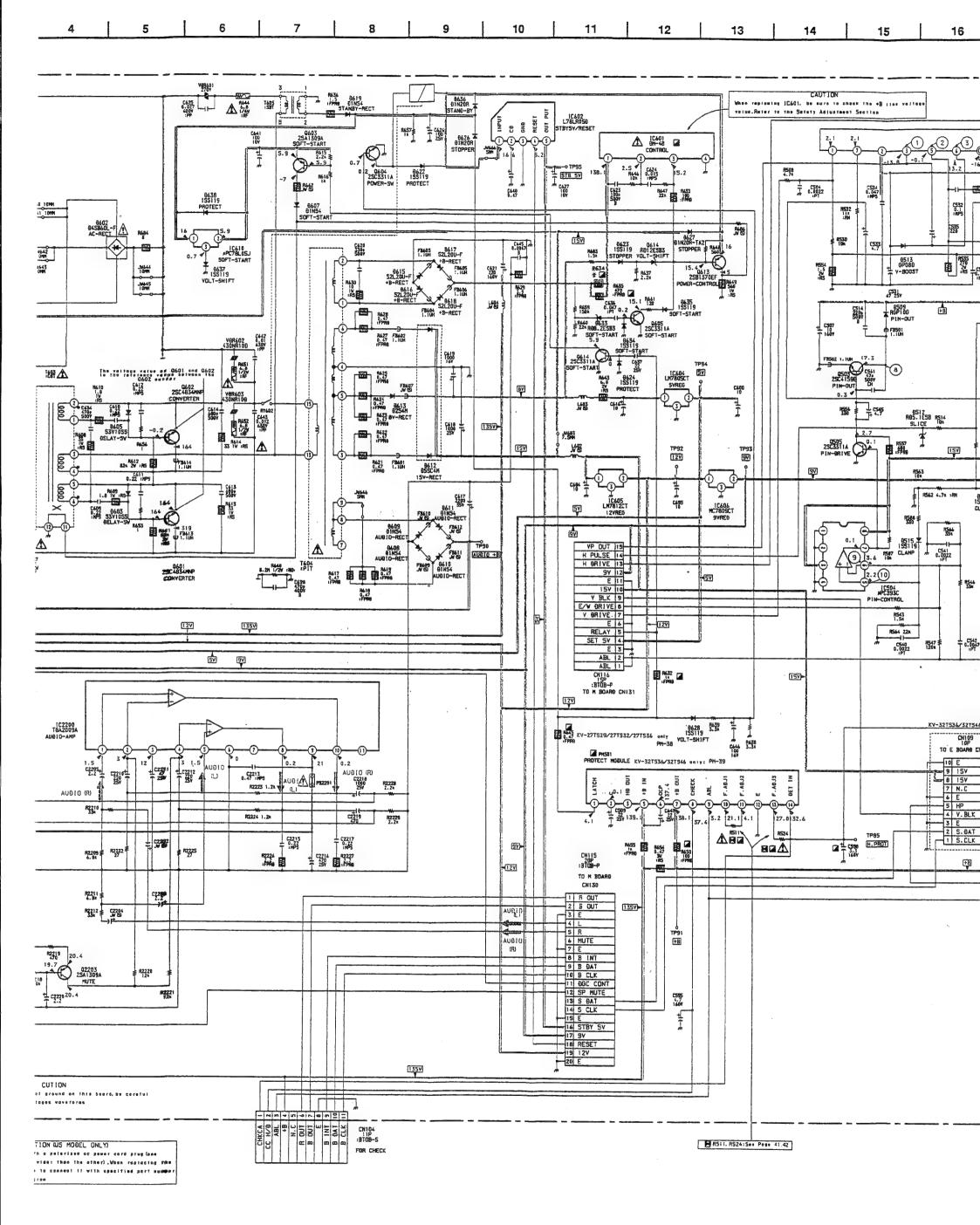


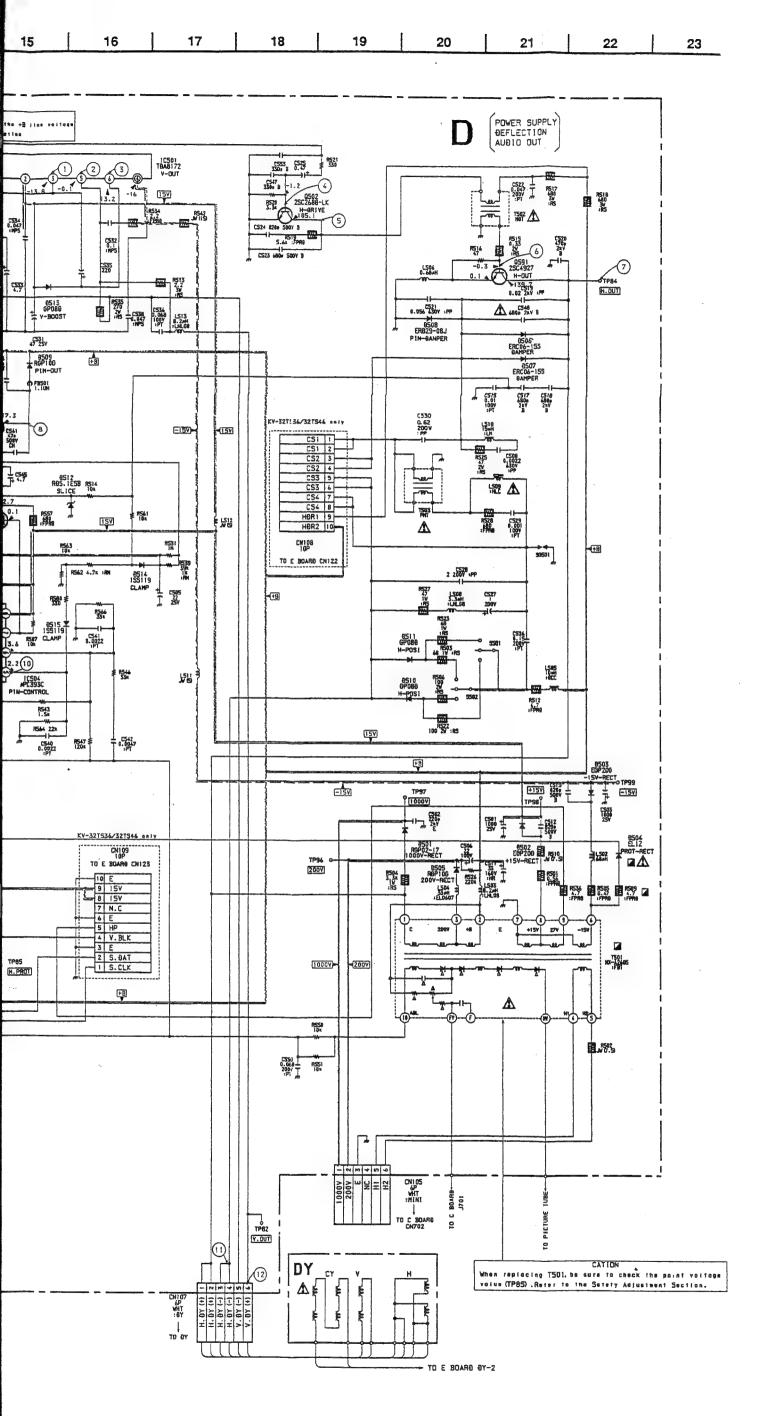




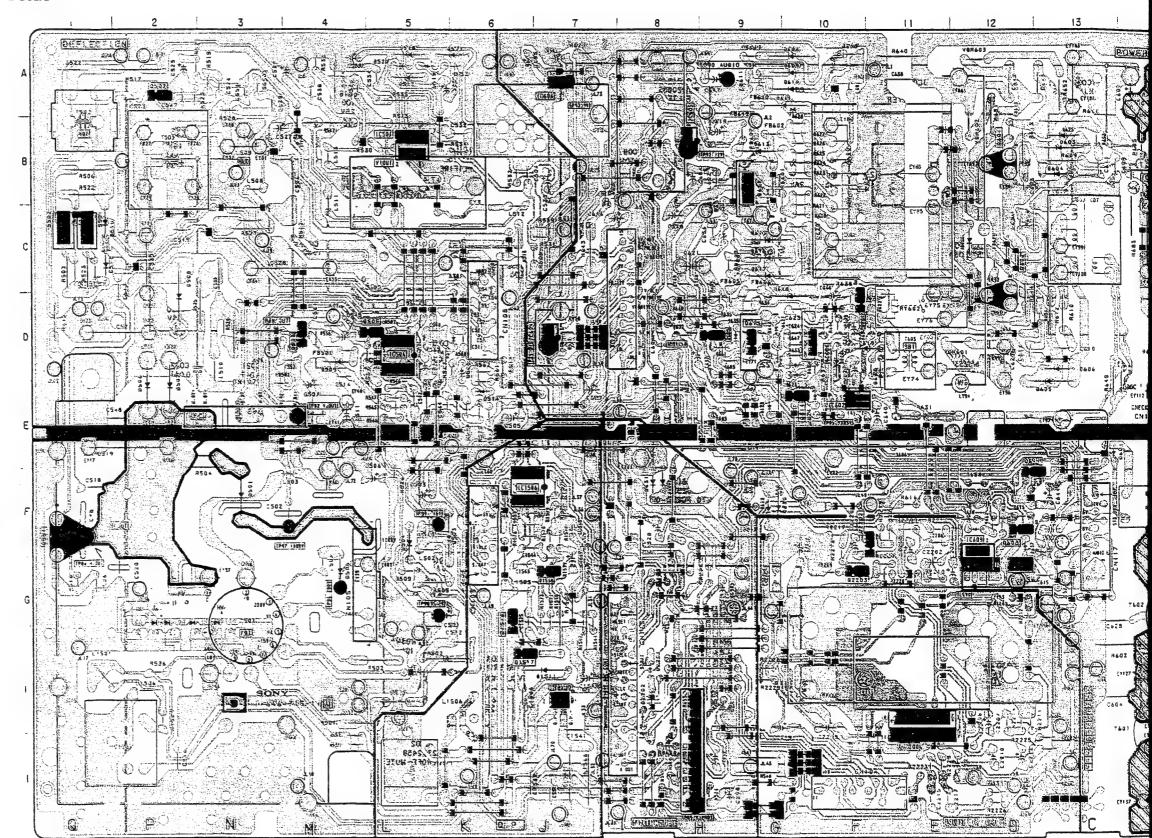




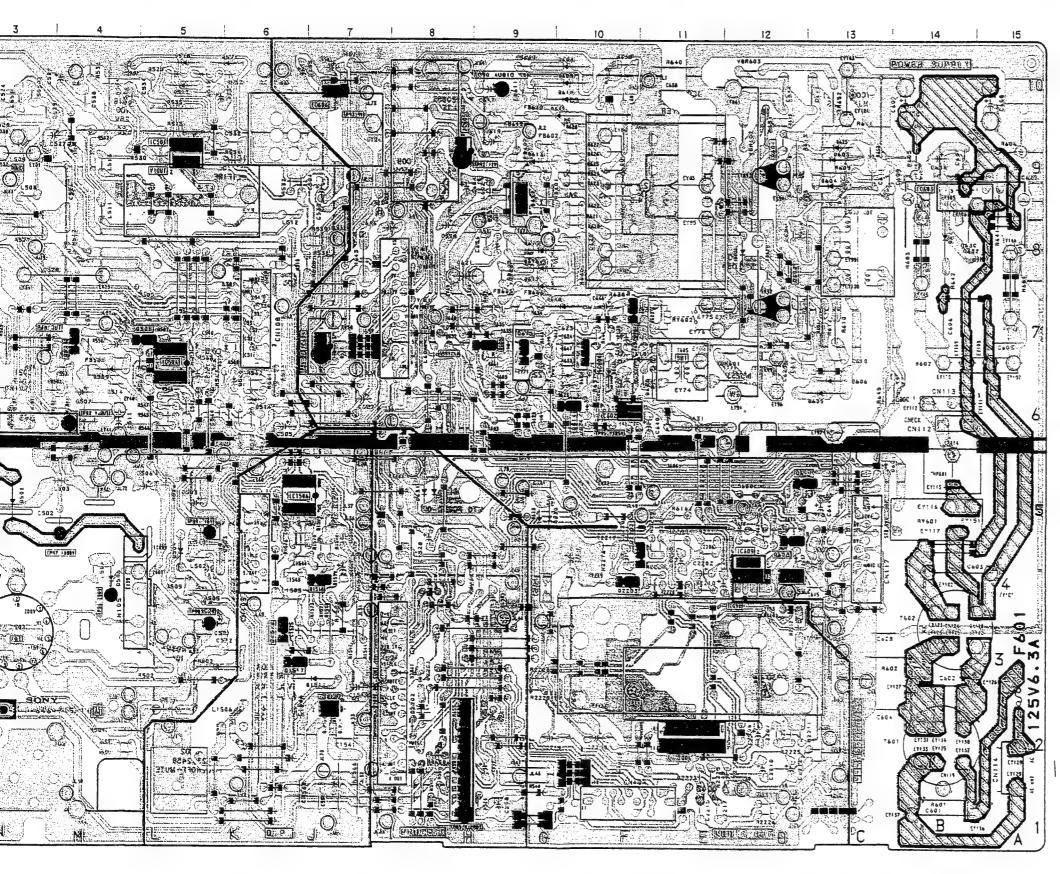




- D Board -





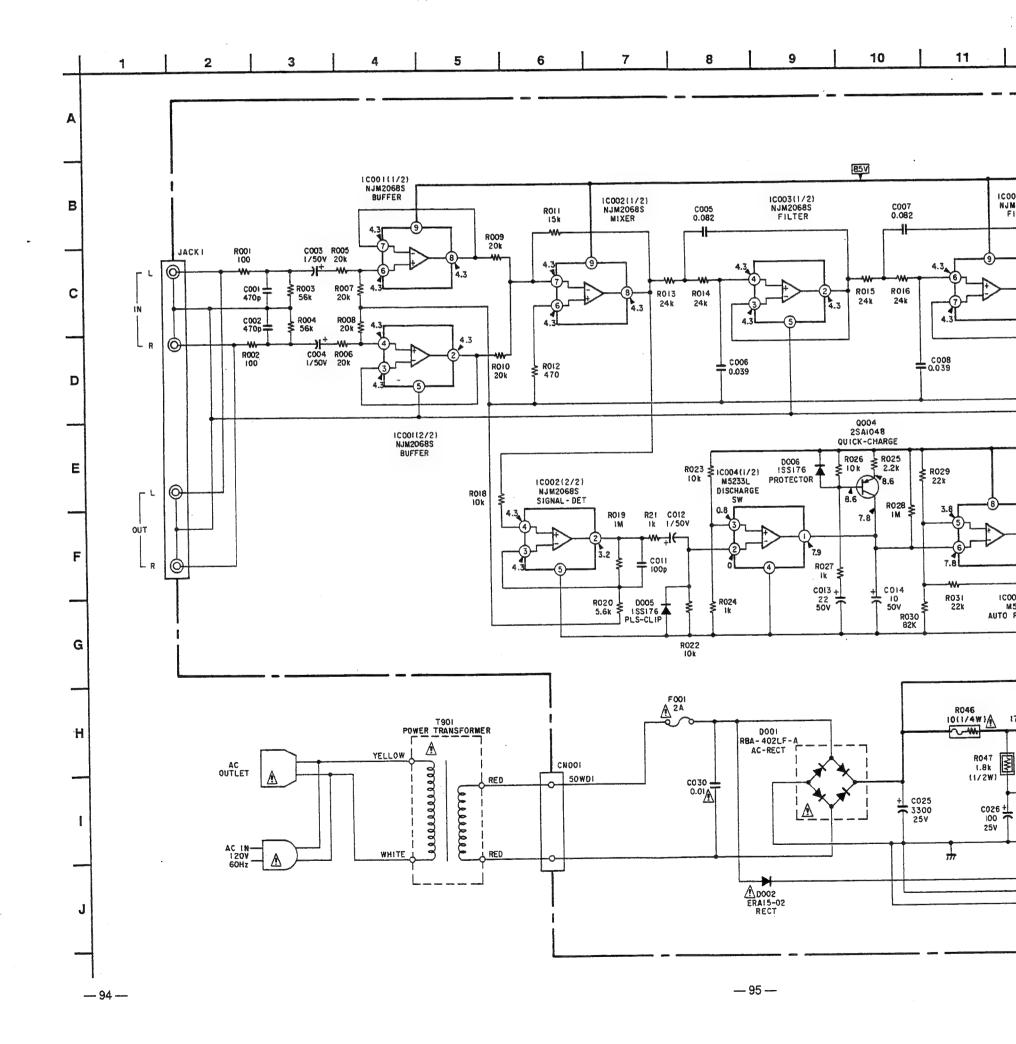


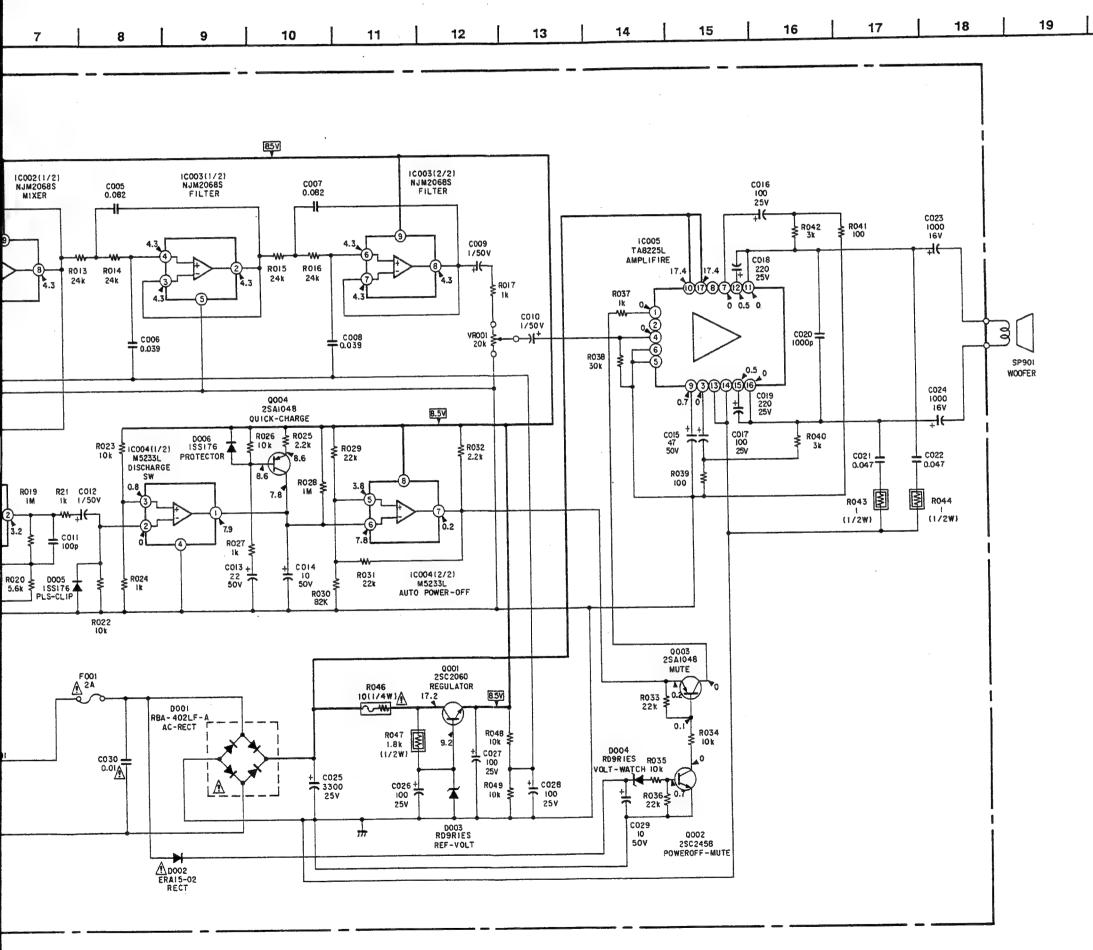
	D	Board	_
_	•	JUEIU	_



NOTE:

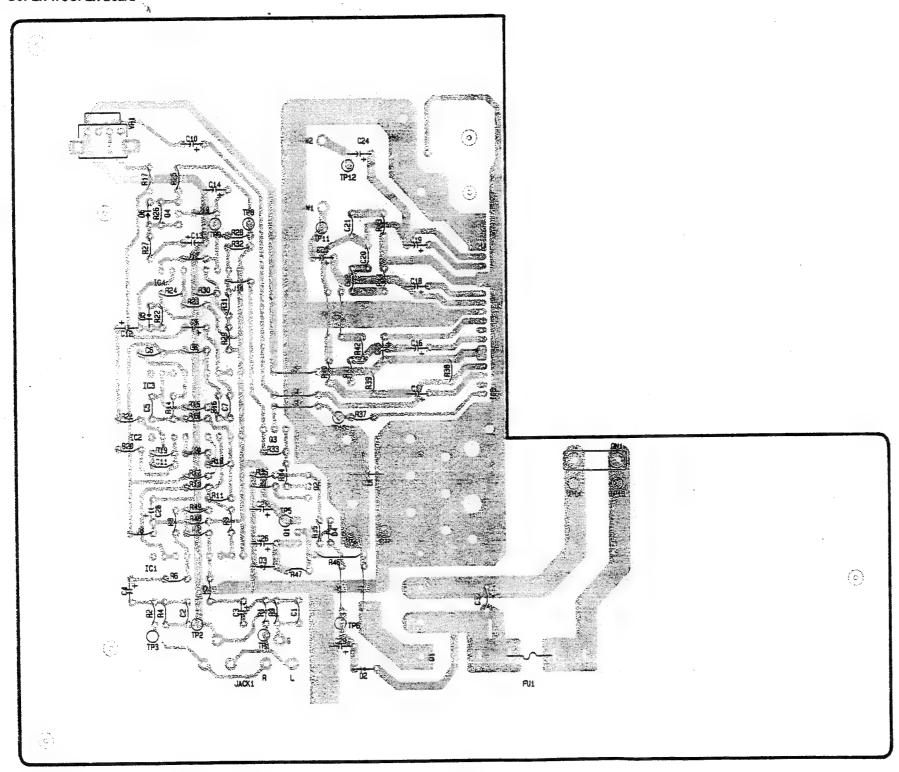
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

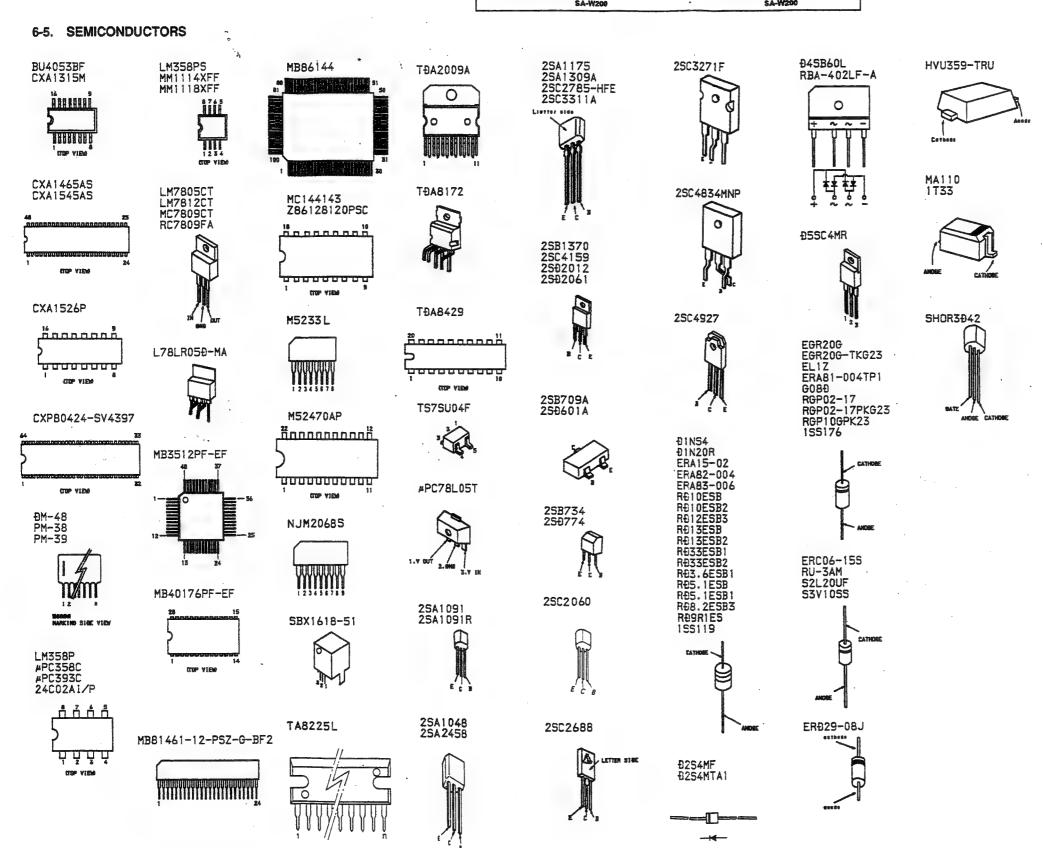




SUPER WOOFER

- SUPER WOOFER Board





SECTION 7 EXPLODED VIEWS

NOTE:

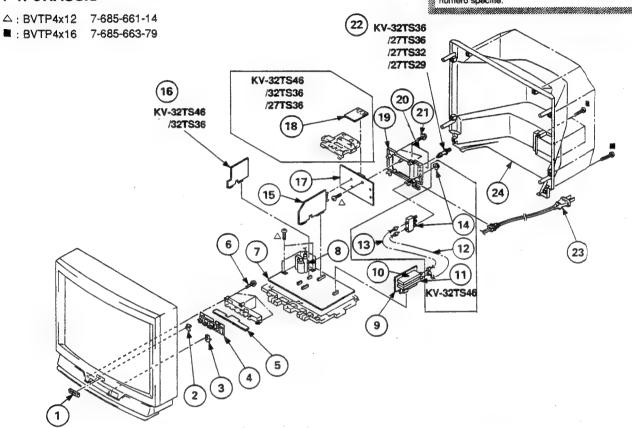
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark A are critical for safety.

Replace only with part number specified.

Les composants identifies par une trame et une marque \underline{A} sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

7-1. CHASSIS



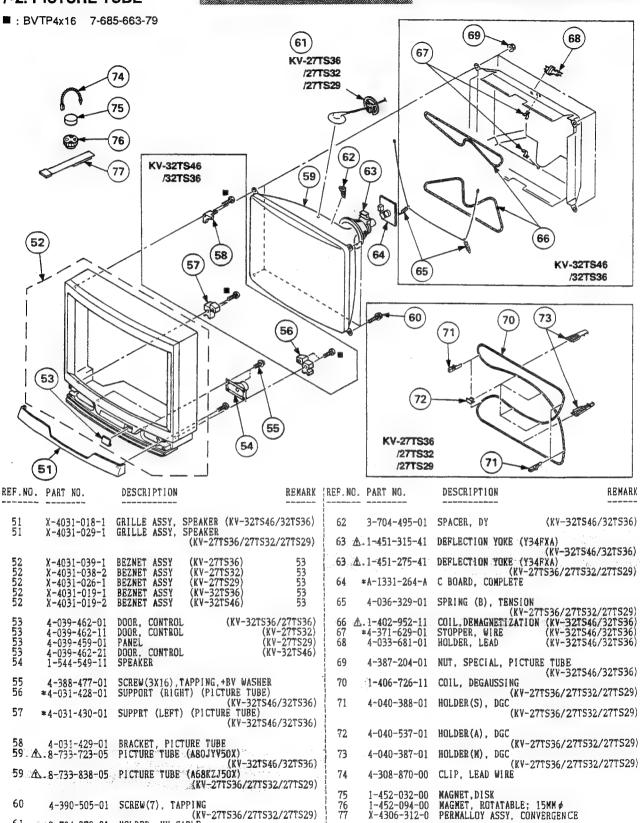
REF.NO. PART NO. DESCRIPTION	REMARK	REF.NO	. PART NO.	DESCRIPTION	REMARK
1 4-394-048-01 EMBLEM (NO.9 2 4-039-458-01 FILTER, REMO 3 4-039-457-01 GUIDE, LED 4 4-039-525-01 BUTTON, MULT	TE	15 15 16	*A-1306-433-A *A-1306-434-A *A-1341-622-A	M BOARD, COMPLETE M BOARD, COMPLETE E BOARD, COMPLETE	(KV-32TS46 (CND)) (KV-32TS46 (US)) (KV-32TS46/32TS36)
5 *1-646-717-11 H BOARD		17 17	*A-1394-441-A	UA BOARD, COMPLETE	(KV-32TS%/27TS36) (W-27TS32)
6 4-319-520-11 SCREW, SPECI 7 *A-1346-112-A D BOARD, COM 7 *A-1346-129-A D BOARD, COM	AL (+PW4X30) IPLETE (KV-32TS46/32TS36) IPLETE (KV-27TS36/27TS32/27TS29)	17 17 18		P ROARD, COMPLETE	(W-27T529) (W-32T546) 2TS46/32T5%/27TS36)
8 A.1-453-146-11 TRANSFORMER		19	4-039-517-01	TERMINAL BOARD, ANTE	- amaic)
9 *A-1297-065-A A BUARD, COM (KV-	32TS36/27TS36/27TS32/27TS29)	19	4-039-524-01	TERMINAL BOARD ANTI	ENNA 7TS36/27TS12/2-7TS29)
9 *A-1297-112-A A BOARD, COM 10: A.8-598-039-00 TUNER BTF-WA 11 A.8-598-047-00 TUNER BTF-WA	VPLETE (KV-32TS46) A401 A401 (KV-32TS46)	20 20	4-040-090-01 4-039-903-01	LABEL, TERMINAL LABEL, TERMINAL	(N-27TS32) (N-27TS29)
12 *1-751-136-11 CABLE, PIN	(KV-32TS46)	20	4-039-834-01	LABEL, TERMINAL (KV-3)	2TS46/32TS6/27TS36)
13 *1-751-135-11 CABLE, PIN 14 1-417-178-11 SELECTOR, AI 15 *A-1306-427-A M BOARD, COI	(KV-32TS46) NTENNA (AS-2) (KV-32TS46) MPLETE (ATT520 (US))	21 22	4-382-854-11 1-573-657-11	SCREW (M3X10), P, S	
15 *A-1306-432-A M BOARD. CO	36/27TS36/27TS32/27TS29(US)) MPLETE S36(CND)/27TS32/27TS29(CND))	23 24 24	1-751-059-11 4-039-463-01 4-039-634-01	CORD, POWER (WITH C COVER, REAR (KV-2 COVER, REAR	ONNECTOR) (10 A/120V) 7TS36/27TS2/27TS29) (KV-32TS6/32TS36)
	<u>-1</u>	01 —			

7-2. PICTURE TUBE

Les composants identifies par une trame et une marque A sont critiques pour la securite.

Ne les remplacer que par une piece portant le numero specifie.

The components identified by shading and mark $\underline{\Lambda}$ are critical for safety. Replace only with part number specified.

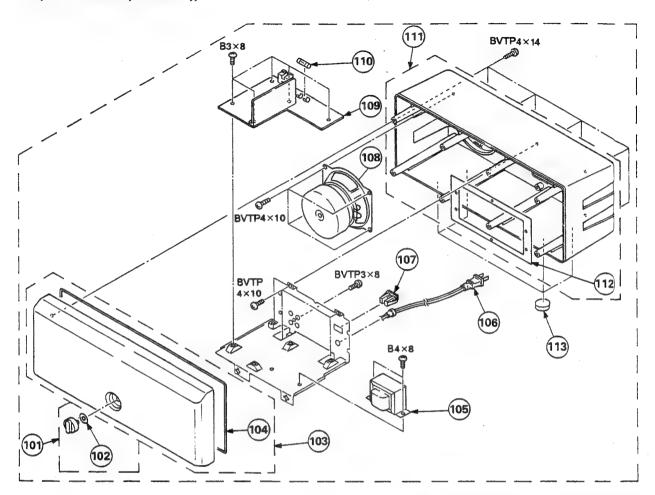


(KV-27TS36/27TS32/27TS29)

(KV-27TS36/27TS32/27TS29)

*3-704-372-01 HOLDER, HV CABLE

7-3. SPEAKER (KV-32TS46 (US/CND))



The components identified by shading and maik. A are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque A sont critiques pour la securite.

Ne les remplacer que par une piece portart le numero specifie.

REF.NO. PART NO.	DESCRIPTION	REMARK	REF.NO. PART NO.	DESCRIPTION	E MARK
101 9-904-749-01 102 9-904-748-01 103 9-904-745-01 104 9-904-747-01	VOLUME NOB FELT WASHER FRONT CASE ENCLOSURE SEALANT TUBE	102 104	108 9-900-278-01 109 9-904-754-01 110 1 -9-904-752-01	SPEAKER AMP KIT (TWY1019-A) FUSE	e jaren er kilde
105 A 9-904-751-01	TRANSFORMER, POWER	14.15	111 9-904-744-01 112 9-904-746-01	CABINET ENCLOSURE SEALANT PACKI	112 NG
106 A.9-904-750-01 107 A.9-904-753-01	CORD, POWER AC OUTLET		113 4-040-527-01	FOOT	



SECTION 8 ELECTRICAL PARTS LIST

NOTE:

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

Les composants identifies par une trame et une marque 🗘 sont critiques pour la securite.
Ne les remplacerque par une piece
portant le numero specifie.

Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering

All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS

All resistors are in ohms F: nonflammable

When indicating parts by reference number, please include the board name.

COILS

MMH: mH, UH: µH MF: μF, PF: μμF

MF: μF, PF: μμF

The components identified by Me in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation.

Should replacement be required, replace only with the value originally

REF.NO. PART NO.			REMARK	REF.NO.	PART NO.	DESCRIPTION		REMARK
*A-1195-062-A	P BOARD, COMPLETE (KV-3:	2TS36/32T	`S46	1				50V 50V 50V 50V
<ca)< td=""><td>PACITOR></td><td></td><td></td><td>C3253</td><td></td><td></td><td></td><td>50V</td></ca)<>	PACITOR>			C3253				50 V
C3201 1-124-477-11 C3203 1-164-004-11 C3204 1-124-907-11 C3205 1-124-907-11 C3206 1-124-907-11	PACITOR> BLECT 47MF CERAMIC CHIP 0.1MF BLECT 10MF BLECT 10MF BLECT 10MF CERAMIC CHIP 100PF	20% 10% 20% 20% 20%	16V 25V 50V 50V 50V	C3254 C3255 C3256 C3257	1-163-141-00 1-163-101-00 1-164-232-11 1-163-117-00	opining out. 100.1	5% 5% 5% 10% 5%	50V 50V 50V 50V
C3207	CERAMIC CHIP 100PF ELECT 3.3MF ELECT 47MF	5% 5% 20% 20%	50V 50V 50V 16V 50V	C3258 C3259 C3260 C3261 C3263	1-163-113-00 1-163-111-00 1-163-119-00 1-163-141-00 1-163-141-00	CERAMIC CHIP 68PF CERAMIC CHIP 56PF CERAMIC CHIP 120PF CERAMIC CHIP 0.001MF CERAMIC CHIP 0.001MF	555555	50V 50V 50V 50V 50V
C3213 1-164-346-11 C3214 1-164-346-11 C3215 1-164-346-11 C3216 1-164-005-11 C3217 1-164-346-11	CBRANIC CHIP 1MF CERAMIC CHIP 1MF CBRAMIC CHIP 1MF CERAMIC CHIP 0.47MF		16V 16V 16V 25V	C3264 C3265 C3266 C3267 C3268	1-165-319-11 1-163-141-00 1-163-141-00 1-163-141-00 1-163-141-00	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.001MF CERAMIC CHIP 0.001MF CERAMIC CHIP 0.001MF CERAMIC CHIP 0.001MF		50 V 50 V 50 V 50 V 50 V
C3218 1-164-346-11 C3219 1-126-103-11 C3220 1-164-346-11	CERAMIC CHIP 1MP ELECT 470MF CERAMIC CHIP 1MP	20%	16V 16V 16V	C3269 C3270 C3271 C3272 C3273	1-163-141-00 1-165-319-11 1-165-319-11 1-165-319-11 1-163-109-00	CERAMIC CHIP O.IMF CERAMIC CHIP O.IMF CERAMIC CHIP O.IMF CERAMIC CHIP 47PF	5% 5%	50V 50V 50V 50V 50V
C3223 1-164-336-11 C3224 1-164-222-11 C3225 1-164-222-11 C3226 1-164-005-11 C3227 1-164-346-11	CERAMIC CHIP 0.33MF CERAMIC CHIP 0.22MF CERAMIC CHIP 0.22MF		25V 25V 25V 25V 16V	C3274 C3275 C3276 C3277 C3278	1-163-101-00 1-163-101-00 1-163-111-00 1-163-101-00 1-163-101-00			50V 50V 50V 50V 50V
C3228 1-163-117-00 C3229 1-163-093-00 C3230 1-163-141-00 C3231 1-163-125-00 C3232 1-163-117-00	CERAMIC CHIP 100PF CERAMIC CHIP 10PF CERAMIC CHIP 0.001MF CERAMIC CHIP 220PF	5% 5% 5%	50V 50V 50V 50V	C3279 C3280 C3282	1-163-141-00 1-124-907-11 1-164-346-11	CERAMIC CHIP 0.001MF BLECT 10MF CERAMIC CHIP IMF	5% 20%	50V 50V 16V
C3232 1-163-117-00	CERAMIC CHIP TOUPF	2%	יוטכ		CUI		0.00 .00	
C3233 1-164-232-11 C3234 1-164-232-11 C3235 1-164-232-11 C3236 1-164-232-11 C3237 1-164-232-11	CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF	10% 10% 10%	50V 50V 50V 50V		<010		UAKD 187	
C3238 1-163-101-00 C3239 1-163-141-00 C3240 1-163-101-00 C3241 1-163-103-00	CERAMIC CHIP 22PF CERAMIC CHIP 0.001MF CERAMIC CHIP 22PF CERAMIC CHIP 27PF	5% 5% 5%	50V 50V 50V 50V	D3202 D3203 D3208 D3209		DIODE HVU359-TRU DIODE MAI10 DIODE RDIOESB2 DIODE RDIOESB2		
C3243 1-163-117-0	O CERAMIC CHIP 100PF	5%			<10			
C3244 1-163-113-0 C3245 1-164-232-1 C3246 1-164-232-1 C3247 1-163-033-0	CERAMIC CHIP 0.01MF CERAMIC CHIP 100PF CERAMIC CHIP 68PF CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF CERAMIC CHIP 0.022MF	5% 10% 10%	50V 50V 50V 50V	1C320 1C320 1C320 1C320	0 8-759-517-74 1 8-759-093-29 2 8-759-093-28 3 8-759-093-28	IC MB81461-12-PSZ-G-B IC MB86144 IC MB40176PF-EF IC MB40176PF-EF IC MB3512PF-EF	F2	
C3248 1-163-125-0	O CERANIC CHIP 220PF	5%	50V	1 10,20	20 כנט נכן ט בי	TO THE START I ME		



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	PART NO.	DESCRIPTION	1		F	REMARK	REF.NO.	PART NO.	DESCRIPTION		REMAI	RK
I C3205	8-759-243-19 <coi< td=""><td>IC TC7SU04F</td><td></td><td></td><td></td><td></td><td>R3238 R3239 R3241 R3242</td><td>1-216-049-00 1-216-043-00</td><td></td><td>1K 5% 560 5% 2.2K 5% 1K 5%</td><td>1/10W 1/10W 1/10W 1/10W</td><td></td></coi<>	IC TC7SU04F					R3238 R3239 R3241 R3242	1-216-049-00 1-216-043-00		1K 5% 560 5% 2.2K 5% 1K 5%	1/10W 1/10W 1/10W 1/10W	
L3202 L3203 L3204	1-410-470-11 1-408-424-00 1-408-424-00 1-410-476-11	INDUCTOR INDUCTOR INDUCTOR INDUCTOR INDUCTOR INDUCTOR	10UH 180U 180U 33UH 10UH	H			R3243 R3244 R3245 R3246	1-216-025-00 1-216-025-00 1-216-025-00 1-216-069-00	METAL GLAZE METAL GLAZE	100 5% 100 5% 100 5% 6.8K 5% 3.9K 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
L3206 L3207 L3208 L3209	1-410-470-11 1-410-387-11 1-410-387-11 1-410-387-11 1-410-387-11 1-410-387-11 -410-387-11	INDUCTOR INDUCTOR INDUCTOR INDUCTOR	33UH 33UH 33UH 33UH				R3248 R3249 R3250 R3251 R3252	1-216-295-00 1-216-057-00 1-216-043-00 1-216-049-00 1-216-043-00	METAL GLAZE METAL GLAZE	0 5% 2.2K 5% 560 5% 1K 5% 560 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
	<tra< td=""><td>NSISTOR></td><td></td><td></td><td></td><td></td><td>R3253</td><td>1-216-065-00 1-216-043-00</td><td>METAL GLAZE</td><td>4.7K 5% 560 5%</td><td>1/10W 1/10W</td><td></td></tra<>	NSISTOR>					R3253	1-216-065-00 1-216-043-00	METAL GLAZE	4.7K 5% 560 5%	1/10W 1/10W	
Q3201 Q3202 Q3203 Q3204	8-729-422-36 8-729-422-27 8-729-422-36 8-729-422-36	TRANSISTOR : TRANSISTOR : TRANSISTOR : TRANSISTOR :	2SB709A- 2SD601A- 2SB709A- 2SB709A-	Q Q Q			R3255 R3256 R3259	1-216-041-00 1-216-043-00 1-216-298-00	METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 5% 560 5% 470 5% 560 5% 2.2 5%	1/10W 1/10W 1/10W	
Q3206 Q3207 Q3208 Q3209	8-729-422-27 8-729-422-36 8-729-422-27 8-729-422-36	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	2SB709A- 2SB709A- 2SB709A- 2SB709A-	Q Q Q			R3260 R3263 R3264 R3265 R3266	1-216-073-00 1-216-025-00 1-216-025-00 1-216-049-00 1-216-057-00	METAL GLAZE	10K 5% 100 5% 100 5% 1K 5% 2.2K 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
45210	8-729-422-36 <res< td=""><td>IKANSISION ,</td><td>∠⊃B</td><td>4</td><td></td><td></td><td>R3267 R3268 R3269 R3270</td><td>1-216-055-00 1-216-053-00 1-216-057-00 1-216-657-11</td><td>METAL GLAZE</td><td>1.8K 5% 1.5K 5% 2.2K 5% 1.8K 0.50</td><td>1/10W 1/10W 1/10W % 1/10W</td><td></td></res<>	IKANSISION ,	∠ ⊃B	4			R3267 R3268 R3269 R3270	1-216-055-00 1-216-053-00 1-216-057-00 1-216-657-11	METAL GLAZE	1.8K 5% 1.5K 5% 2.2K 5% 1.8K 0.50	1/10W 1/10W 1/10W % 1/10W	
R3202 R3203			100K 10K 100 100 1M	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R3271 R3273 R3274 R3275	1-216-655-11 1-216-073-00 1-216-049-00 1-216-049-00	METAL CHIP METAL GLAZE METAL GLAZE METAL GLAZE	1.5K 0.50 10K 5% 1K 5% 1K 5% 1K 5% 2.2 5%	% 1/10W 1/10W 1/10W 1/10W	
R3207 R3208 R3209 R3210 R3211	1-216-295-00 1-216-097-00 1-216-079-00 1-216-089-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 100K 18K 47K 10K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W		R3276 R3277	1-216-657-11 1-216-655-11 1-216-655-11 1-216-049-00 1-216-049-00 1-216-049-00 1-216-298-00 CCRY 1-567-878-11	METAL GLAZE METAL GLAZE STAL>	1K 5% 2.2 5%	1/10W 1/10W	
R3212 R3213 R3214	1-216-073-00 1-216-075-00 1-216-121-00			5% 5% 5% 5%	1/10W 1/10W 1/10W		X3201 X3202	1-567-878-11 1-567-878-11	VIBRATOR, CRY VIBRATOR, CRY	/STAL /STAL	******	***
R3215 R3216	1-216-057-00 1-216-057-00	METAL GLAZE	2.2K 2.2K	5% 5%				*A-1297-065-A				
R3217 R3218 R3219 R3220	1-216-049-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE	1 K 1 K 1 K	24	1/10W 1/10W 1/10W			*A-1297-112-A	A BOARD, COMP	PLETE (KV-32	TS46)	
R3221 R3222	1-216-655-11 1-216-655-11	METAL CHIP	1.5K	0.50%	1/10W			<cap< td=""><td>ACITOR></td><td></td><td></td><td></td></cap<>	ACITOR>			
R3223 R3224	1-216-025-00 1-216-049-00	METAL GLAZE METAL GLAZE	100 1K	5% 5% 5%	1/10W 1/10W		1	1-124-907-11		10MF	20% 50V (KV-321S4) 10% 50V	6)
R3225 R3226	1-216-025-00 1-216-085-00	METAL GLAZE METAL GLAZE	100 33K	5%	1/10W 1/10W		C173 C174 C175	1-164-232-11 1-164-232-11 1-126-103-11	CERAMIC CHIP CERAMIC CHIP ELECT		10% 50V 10% 50V 20% 16V	
R3228 R3229 R3230 R3231	1-216-647-11 1-216-045-00 1-216-073-00 1-216-073-00 1-216-001-00	METAL CHIP METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 10K	0.50% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		C176 C177 C178 C179 C180	1-126-103-11 1-124-907-11 1-126-101-11 1-124-916-11 1-124-916-11	ELECT ELECT ELECT ELECT ELECT	470MF 10MF 100MF 22MF 22MF	20% 16V 20% 50V 20% 16V 20% 25V 20% 25V	
R3232 R3233 R3234 R3235	1-216-083-00 1-216-049-00 1-216-651-11 1-216-043-00	METAL GLAZE METAL CHIP METAL GLAZE	1 K 1 K 560	5%	1/10W 1/10W 1/10W 1/10W		C181	1-164-161-11 1-164-161-11	CERAMIC CHIP	0.0022MF	10% 50V	
R3236 R3237	1-216-065-00 1-216-043-00			5% 5%	1/10W 1/10W		C184	1-124-907-11	ELECT	10MF	20% (KV-32TS4) 20% (KV-32TS4)	

V-27TS29/27TS32/27TS36 RM-Y116 RM-Y117 RM-Y118 V-32TS36/32TS46 RM-Y118 RM-Y118 SA-W200



REF.NO. PART NO.

DESCRIPTION

Les composants identifies par une trame et une marque 🛆 sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

DESCRIPTION

REMARK | REF. NO. PART NO.

The components identified by shading and mark \(\Delta\) are critical for safety.

Replace only with part number specified.

REMARK

TELL NO. 1 ALL NO.																																																																																																																																																																																																																							
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		1 1 1	`	*A-1306-427-A																																																																																																																																																																																																																			
CN103 *1-564-519-11 CN151 *1-573-979-11	CONNECTOR, BOARD TO BOAR	D 11P		(KV-32TS36(us)/27T36(US)/		29(US))																																																																																																																																																																																																																
CN152 1-750-394-11 CN164 *1-564-505-11	PLUG, CONNECTOR 2P	327		*A-1306-432-A																																																																																																																																																																																																																			
CN165 *1-564-505-11	PLUG, CONNECTOR 2P			(KV-32TS36(**************************************		ND))																																																																																																																																																																																																																
<000	DE>	# # 6		*A-1306-433-A	M BOARD, COMP	LETE (KV-32	TS46 (CN	D))																																																																																																																																																																																																															
D170 8-719-110-78	DIODE RD33ESB2	 			*********	****																																																																																																																																																																																																																	
D175 8-719-110-76	DIODE RD33ESB1	(KV-32TS46)		*A-1306-434-A	M BOARD, COMP		TS46 (US))																																																																																																																																																																																																															
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IC172 8-759-932-67	IC BU4053BF	(KV-32TS46)		<cap< td=""><td>ACITOR></td><td></td><td></td><td></td></cap<>	ACITOR>																																																																																																																																																																																																																		
			C002 C003	1-163-809-11 1-163-001-11	CERAMIC CHIP	220PF	10%	25V 50V																																																																																																																																																																																																															
<c01< td=""><td>IL></td><td>į</td><td>C005 C006</td><td>1-163-125-00 1-163-125-00</td><td>CERAMIC CHIP CERAMIC CHIP</td><td>220PF</td><td>5% 5%</td><td>50 V 50 V</td></c01<>	IL>	į	C005 C006	1-163-125-00 1-163-125-00	CERAMIC CHIP CERAMIC CHIP	220PF	5% 5%	50 V 50 V																																																																																																																																																																																																															
L170 1-408-408-00 L171 1-408-408-00			C007	1-124-903-11	ELECT	IMF	20%	50V																																																																																																																																																																																																															
L172 1-408-408-00 L173 1-408-408-00	INDUCTOR 8.2UH	(KV-32TS46)	C008 C009	1-163-125-00 1-163-125-00	CERAMIC CHIP	220PF 220PF	5% 5%	50 V 50 V																																																																																																																																																																																																															
	V -2-11		C010 C012	1-163-125-00 1-163-125-00	CERAMIC CHIP	220PF	5555555	50V 50V																																																																																																																																																																																																															
<tr <="" td=""><td>ANSISTOR></td><td></td><td>C013</td><td>1-163-125-00</td><td>CERAMIC CHIP</td><td></td><td>5%</td><td>50 V</td></tr> <tr><td></td><td></td><td>(KV-32TS46) (KV-32TS46)</td><td>C014 C015</td><td>1-163-125-00 1-163-125-00</td><td>CERAMIC CHIP</td><td></td><td>5% 5%</td><td>50V 50V</td></tr> <tr><td>4119 0 (2) 422 30</td><td></td><td>(11 321240)</td><td>C016 C017</td><td>1-163-125-00 1-163-125-00</td><td>CERAMIC CHIP</td><td>220PF</td><td>5% 5% 5% 5% 5% 5%</td><td>50V 50V</td></tr> <tr><td><res< td=""><td>SISTOR></td><td></td><td>C018</td><td>1-163-125-00</td><td>CERAMIC CHIP</td><td></td><td>5%</td><td>50V</td></res<></td></tr> <tr><td>R170 1-216-025-00</td><td>METAL GLAZE 100 5% (KV-32TS36/27TS36</td><td>1/10W 5/27T532/27T520)</td><td>C019 C021</td><td>1-163-125-00 1-163-125-00</td><td>CERAMIC CHIP CERAMIC CHIP</td><td>220PF</td><td>5% 5% 5%</td><td>50V 50V</td></tr> <tr><td>R173 1-216-295-00</td><td></td><td>1/10W (KV-32TS46)</td><td>C022 C023</td><td>1-163-125-00 1-163-125-00</td><td>CERAMIC CHIP CERAMIC CHIP</td><td>220PF</td><td>5% 5%</td><td>50V 50V</td></tr> <tr><td>R174 1-216-689-11</td><td>METAL GLAZE 39K 5%</td><td>1/10W</td><td>C025</td><td>1-163-125-00</td><td>CERANIC CHIP</td><td></td><td>5%</td><td>50V</td></tr> <tr><td>R175 1-215-900-11</td><td>METAL OXIDE 22K 5%</td><td>2W F (KV-32TS46)</td><td>C028 C029</td><td>1-163-125-00 1-163-125-00</td><td>CERAMIC CHIP CERAMIC CHIP</td><td></td><td>5% 5%</td><td>50V 50V</td></tr> <tr><td>R176 1-216-295-00</td><td>METAL GLAZE 0 5% (KV-32TS36/27TS36</td><td>1/10W</td><td>C034</td><td>1-163-125-00</td><td>CERANIC CHIP</td><td></td><td>5%</td><td>50V -32TS46)</td></tr> <tr><td>R177 1-215-900-11</td><td></td><td>2W F</td><td>C035</td><td>1-163-125-00</td><td>CERAMIC CHIP</td><td>220PF</td><td>5%</td><td>50V 7-32TS46)</td></tr> <tr><td>R179 1-216-065-00 R181 1-216-025-00</td><td></td><td>1/10W 1/10W</td><td>C041 C043</td><td>1-163-009-11</td><td>CERANIC CHIP CERANIC CHIP</td><td></td><td>10%</td><td>50V 50V</td></tr> <tr><td></td><td></td><td>(KV-32TS46)</td><td>C045</td><td>1-163-159-00</td><td>ELECT</td><td>330MF</td><td>2% 20%</td><td>16V</td></tr> <tr><td>R185 1-216-025-00</td><td>METAL GLAZE 100 5%</td><td>1/10W (KV-32TS46)</td><td>C047 C049</td><td>1-104-896-91 1-163-125-00</td><td>CERAMIC CHIP CERAMIC CHIP</td><td></td><td>2% 5%</td><td>50V 50V</td></tr> <tr><td></td><td>METAL GLAZE 27K 5%</td><td>1/10W</td><td>C050</td><td>1-163-125-00</td><td></td><td></td><td>5%</td><td>50 V 50 V</td></tr> <tr><td>P.444</td><td>METAL GLAZE 39K 5%</td><td>1/10W (KV-32TS46)</td><td>C051 C052</td><td>1-163-031-11 1-163-125-00</td><td>CERAMIC CHIP</td><td>220PF</td><td>5%</td><td>50V</td></tr> <tr><td>R189 1-216-083-00</td><td>METAL GLAZE 27K 5%</td><td>1/10W (KV-32TS46)</td><td>C053 C054</td><td>1-163-121-00 1-163-125-00</td><td>CERAMIC CHIP CERAMIC CHIP</td><td></td><td>5% 5% 5%</td><td>50V 50V</td></tr> <tr><td>R190 1-216-065-00</td><td>METAL GLAZE 4.7K 5%</td><td>1/10W</td><td>C055</td><td>1-163-125-00</td><td>CERAMIC CHIP</td><td></td><td>5% 5%</td><td>50V</td></tr> <tr><td>R191 1-216-065-00</td><td>METAL GLAZE 4.7K 5%</td><td>(KV-32TS46) 1/10W</td><td>C056 C057</td><td>1-163-125-00 1-163-017-00</td><td>CERAMIC CHIP</td><td>0.0047MF</td><td>10%</td><td>50V 50V</td></tr> <tr><td>R193 1-216-037-00</td><td>METAL GLAZE 330 5%</td><td>(KY-32TS46) 1/10W</td><td>C058 C059</td><td>1-163-037-11 1-163-125-00</td><td>CERANIC CHIP CERANIC CHIP</td><td></td><td>10% 5%</td><td>25V 50V</td></tr> <tr><td>R196 1-216-037-00</td><td>METAL GLAZE 330 5%</td><td>1/10W</td><td>C060</td><td>1-124-903-11</td><td>ELECT</td><td>IMF</td><td>20%</td><td>50V</td></tr> <tr><td></td><td></td><td>(KV-32TS46)</td><td>C061</td><td>1-163-117-00 1-124-907-11</td><td>CERAMIC CHIP ELECT</td><td>100PF 10NF</td><td>5% 20%</td><td>50Y 50Y</td></tr> <tr><td><tu< td=""><td>INER></td><td></td><td>C150</td><td>1-136-165-00</td><td>FILM</td><td>0.1MF</td><td>5%</td><td>50V</td></tu<></td></tr> <tr><td>TU101A 8-598-039-00</td><td>TUNER BTF-WA401</td><td></td><td>C151</td><td>1-136-175-00</td><td>FILM</td><td>(KV-32TS46 0.068MF</td><td>5%</td><td>50V</td></tr> <tr><td>TU102A 8-598-047-00</td><td>TUNER BTF-WA401</td><td>(KV-32TS46)</td><td>i</td><td></td><td></td><td>(KV-32TS46</td><td>(US) /32'</td><td>rs36(US))</td></tr>	ANSISTOR>		C013	1-163-125-00	CERAMIC CHIP		5%	50 V			(KV-32TS46) (KV-32TS46)	C014 C015	1-163-125-00 1-163-125-00	CERAMIC CHIP		5% 5%	50V 50V	4119 0 (2) 422 30		(11 321240)	C016 C017	1-163-125-00 1-163-125-00	CERAMIC CHIP	220PF	5% 5% 5% 5% 5% 5%	50V 50V	<res< td=""><td>SISTOR></td><td></td><td>C018</td><td>1-163-125-00</td><td>CERAMIC CHIP</td><td></td><td>5%</td><td>50V</td></res<>	SISTOR>		C018	1-163-125-00	CERAMIC CHIP		5%	50V	R170 1-216-025-00	METAL GLAZE 100 5% (KV-32TS36/27TS36	1/10W 5/27T532/27T520)	C019 C021	1-163-125-00 1-163-125-00	CERAMIC CHIP CERAMIC CHIP	220PF	5% 5% 5%	50V 50V	R173 1-216-295-00		1/10W (KV-32TS46)	C022 C023	1-163-125-00 1-163-125-00	CERAMIC CHIP CERAMIC CHIP	220PF	5% 5%	50V 50V	R174 1-216-689-11	METAL GLAZE 39K 5%	1/10W	C025	1-163-125-00	CERANIC CHIP		5%	50V	R175 1-215-900-11	METAL OXIDE 22K 5%	2W F (KV-32TS46)	C028 C029	1-163-125-00 1-163-125-00	CERAMIC CHIP CERAMIC CHIP		5% 5%	50V 50V	R176 1-216-295-00	METAL GLAZE 0 5% (KV-32TS36/27TS36	1/10W	C034	1-163-125-00	CERANIC CHIP		5%	50V -32TS46)	R177 1-215-900-11		2W F	C035	1-163-125-00	CERAMIC CHIP	220PF	5%	50V 7-32TS46)	R179 1-216-065-00 R181 1-216-025-00		1/10W 1/10W	C041 C043	1-163-009-11	CERANIC CHIP CERANIC CHIP		10%	50V 50V			(KV-32TS46)	C045	1-163-159-00	ELECT	330MF	2% 20%	16V	R185 1-216-025-00	METAL GLAZE 100 5%	1/10W (KV-32TS46)	C047 C049	1-104-896-91 1-163-125-00	CERAMIC CHIP CERAMIC CHIP		2% 5%	50V 50V		METAL GLAZE 27K 5%	1/10W	C050	1-163-125-00			5%	50 V 50 V	P.444	METAL GLAZE 39K 5%	1/10W (KV-32TS46)	C051 C052	1-163-031-11 1-163-125-00	CERAMIC CHIP	220PF	5%	50V	R189 1-216-083-00	METAL GLAZE 27K 5%	1/10W (KV-32TS46)	C053 C054	1-163-121-00 1-163-125-00	CERAMIC CHIP CERAMIC CHIP		5% 5% 5%	50V 50V	R190 1-216-065-00	METAL GLAZE 4.7K 5%	1/10W	C055	1-163-125-00	CERAMIC CHIP		5% 5%	50V	R191 1-216-065-00	METAL GLAZE 4.7K 5%	(KV-32TS46) 1/10W	C056 C057	1-163-125-00 1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V 50V	R193 1-216-037-00	METAL GLAZE 330 5%	(KY-32TS46) 1/10W	C058 C059	1-163-037-11 1-163-125-00	CERANIC CHIP CERANIC CHIP		10% 5%	25V 50V	R196 1-216-037-00	METAL GLAZE 330 5%	1/10W	C060	1-124-903-11	ELECT	IMF	20%	50V			(KV-32TS46)	C061	1-163-117-00 1-124-907-11	CERAMIC CHIP ELECT	100PF 10NF	5% 20%	50Y 50Y	<tu< td=""><td>INER></td><td></td><td>C150</td><td>1-136-165-00</td><td>FILM</td><td>0.1MF</td><td>5%</td><td>50V</td></tu<>	INER>		C150	1-136-165-00	FILM	0.1MF	5%	50V	TU101A 8-598-039-00	TUNER BTF-WA401		C151	1-136-175-00	FILM	(KV-32TS46 0.068MF	5%	50V	TU102A 8-598-047-00	TUNER BTF-WA401	(KV-32TS46)	i			(KV-32TS46	(US) /32'	rs36(US))
ANSISTOR>		C013	1-163-125-00	CERAMIC CHIP		5%	50 V																																																																																																																																																																																																																
		(KV-32TS46) (KV-32TS46)	C014 C015	1-163-125-00 1-163-125-00	CERAMIC CHIP		5% 5%	50V 50V																																																																																																																																																																																																															
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<res< td=""><td>SISTOR></td><td></td><td>C018</td><td>1-163-125-00</td><td>CERAMIC CHIP</td><td></td><td>5%</td><td>50V</td></res<>	SISTOR>		C018	1-163-125-00	CERAMIC CHIP		5%	50V																																																																																																																																																																																																															
R170 1-216-025-00	METAL GLAZE 100 5% (KV-32TS36/27TS36	1/10W 5/27T532/27T520)	C019 C021	1-163-125-00 1-163-125-00	CERAMIC CHIP CERAMIC CHIP	220PF	5% 5% 5%	50V 50V																																																																																																																																																																																																															
R173 1-216-295-00		1/10W (KV-32TS46)	C022 C023	1-163-125-00 1-163-125-00	CERAMIC CHIP CERAMIC CHIP	220PF	5% 5%	50V 50V																																																																																																																																																																																																															
R174 1-216-689-11	METAL GLAZE 39K 5%	1/10W	C025	1-163-125-00	CERANIC CHIP		5%	50V																																																																																																																																																																																																															
R175 1-215-900-11	METAL OXIDE 22K 5%	2W F (KV-32TS46)	C028 C029	1-163-125-00 1-163-125-00	CERAMIC CHIP CERAMIC CHIP		5% 5%	50V 50V																																																																																																																																																																																																															
R176 1-216-295-00	METAL GLAZE 0 5% (KV-32TS36/27TS36	1/10W	C034	1-163-125-00	CERANIC CHIP		5%	50V -32TS46)																																																																																																																																																																																																															
R177 1-215-900-11		2W F	C035	1-163-125-00	CERAMIC CHIP	220PF	5%	50V 7-32TS46)																																																																																																																																																																																																															
R179 1-216-065-00 R181 1-216-025-00		1/10W 1/10W	C041 C043	1-163-009-11	CERANIC CHIP CERANIC CHIP		10%	50V 50V																																																																																																																																																																																																															
		(KV-32TS46)	C045	1-163-159-00	ELECT	330MF	2% 20%	16V																																																																																																																																																																																																															
R185 1-216-025-00	METAL GLAZE 100 5%	1/10W (KV-32TS46)	C047 C049	1-104-896-91 1-163-125-00	CERAMIC CHIP CERAMIC CHIP		2% 5%	50V 50V																																																																																																																																																																																																															
	METAL GLAZE 27K 5%	1/10W	C050	1-163-125-00			5%	50 V 50 V																																																																																																																																																																																																															
P.444	METAL GLAZE 39K 5%	1/10W (KV-32TS46)	C051 C052	1-163-031-11 1-163-125-00	CERAMIC CHIP	220PF	5%	50V																																																																																																																																																																																																															
R189 1-216-083-00	METAL GLAZE 27K 5%	1/10W (KV-32TS46)	C053 C054	1-163-121-00 1-163-125-00	CERAMIC CHIP CERAMIC CHIP		5% 5% 5%	50V 50V																																																																																																																																																																																																															
R190 1-216-065-00	METAL GLAZE 4.7K 5%	1/10W	C055	1-163-125-00	CERAMIC CHIP		5% 5%	50V																																																																																																																																																																																																															
R191 1-216-065-00	METAL GLAZE 4.7K 5%	(KV-32TS46) 1/10W	C056 C057	1-163-125-00 1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V 50V																																																																																																																																																																																																															
R193 1-216-037-00	METAL GLAZE 330 5%	(KY-32TS46) 1/10W	C058 C059	1-163-037-11 1-163-125-00	CERANIC CHIP CERANIC CHIP		10% 5%	25V 50V																																																																																																																																																																																																															
R196 1-216-037-00	METAL GLAZE 330 5%	1/10W	C060	1-124-903-11	ELECT	IMF	20%	50V																																																																																																																																																																																																															
		(KV-32TS46)	C061	1-163-117-00 1-124-907-11	CERAMIC CHIP ELECT	100PF 10NF	5% 20%	50Y 50Y																																																																																																																																																																																																															
<tu< td=""><td>INER></td><td></td><td>C150</td><td>1-136-165-00</td><td>FILM</td><td>0.1MF</td><td>5%</td><td>50V</td></tu<>	INER>		C150	1-136-165-00	FILM	0.1MF	5%	50V																																																																																																																																																																																																															
TU101A 8-598-039-00	TUNER BTF-WA401		C151	1-136-175-00	FILM	(KV-32TS46 0.068MF	5%	50V																																																																																																																																																																																																															
TU102A 8-598-047-00	TUNER BTF-WA401	(KV-32TS46)	i			(KV-32TS46	(US) /32'	rs36(US))																																																																																																																																																																																																															



REF.NO.	PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARI	K																																																																																								
C152	1-124-907-11	ELECT	10MF (KV-32TS46)	20% (US)/32T	50V 'S36 (US))		<con< td=""><td>NECTOR></td><td></td><td></td></con<>	NECTOR>																																																																																										
C153	1-137-367-11	FILM	0.0033MF	5%	50V			PLUG, CONNECTOR 8P	0 00100 000																																																																																									
C154	1-163-038-00	CERAMIC CHIP			25V	CN131	1-573-301-11 *1-691-632-11	CONNECTOR, BOARD T	O BOARD 15P	١																																																																																								
C155	1-124-907-11	ELECT	(KV-32TS46) 10MF (KV-32TS46)	20%	50V	CN137	*1-564-521-11 1-750-394-11	PLUG, CONNECTOR 6P PIN, CONNECTOR (ST.	(KV-32TS46) AKING) 32P	'																																																																																								
C156	1-163-135-00	CERAMIC CHIP		5%	50V			PLUG, CONNECTOR 8P PLUG, CONNECTOR 2P																																																																																										
C157	1-163-038-00	CERAMIC CHIP	0.1MF (KV-32TS46)		25V		<010>	ne>																																																																																										
C158	1-124-903-11	ELECT	1MF (KV-32TS46)	20%	50V	D001	8-719-404-46	DIODE MA110																																																																																										
C160	1-124-903-11	ELECT	IMF	20%	50 V	D002	8-719-404-46 8-719-404-46	DIODE MAILO DIODE MAILO	(KV-32TS46(US)))																																																																																								
C201 C202	1-163-017-00 1-163-125-00	CERAMIC CHIP CERAMIC CHIP	220PF	10% 5%	50V 50V	D005	8-713-300-57 8-719-110-17	DIODE 1733 DIODE RD10ESB2																																																																																										
C203 C204	1-163-989-11 1-126-101-11	CERAMIC CHIP BLECT	0.033NF 100MF	10% 20%	25V 16V	D007	8-719-110-17	DIODE RDIOESB2																																																																																										
C205	1-163-125-00	CERAMIC CHIP	220PF	5%	50V		8-719-110-17 8-719-110-17	DIODE RD10ESB2 DIODE RD10ESB2	OBC 44 (1921) (2000224 (1921)																																																																																									
C211 C212	1-163-989-11 1-124-902-00	CERAMIC CHIP	0.47MF	10% 20%	25V 50V	D150 D201	8-719-404-46 8-719-404-46	DIODE MAILO (KA-2	2TS46 (US) /32TS36 (US))	,																																																																																								
C213 C214	1-124-902-00 1-163-017-00	ELECT CERAMIC CHIP	0.47MF 0.0047MF	20% 10%	50V 50V	D202 D205	8-719-404-46 8-719-110-17	DIODE MAIIO DIODE RDIOESB2																																																																																										
C216 C301	1-124-478-11 1-163-117-00	ELECT CERAMIC CHIP	100MF	20% 5%	25V 50V		8-719-110-17 8-719-110-17	DIODE RDIOESB2 DIODE RDIOESB2																																																																																										
C305	1-124-907-11	ELECT ELECT	100FF 10MF 0.47MF	20% 20%	50V 50V	D304	8-719-110-17	DIODE RDIOESB2																																																																																										
C306 C307	1-124-902-00 1-163-125-00	CERAMIC CHIP		5%	50V		<10>																																																																																											
C308 C310	1-163-099-00 1-124-916-11	CERAMIC CHIP	18PF 22MF	5% 20%	50V 25V	10101		IC CXP80424-SV4397																																																																																										
C311 C313	1-124-903-11 1-163-003-11	ELECT CERAMIC CHIP	1MF	207	50V 50V	1C102 1C150		IC 24C02AI/P IC Z8612812PSC																																																																																										
C315	1-124-907-11	ELECT	IOMF	20%	50 V			IC TDA8424	2TS46 (US) /32TS 36 (US))																																																																																								
C3 16	1-124-907-11	ELECT	10MF	20%	1546 (US)) 50V		8-759-983-69																																																																																											
C317	1-124-907-11	ELECT	10MF	20%	PS46 (US)) 50V	10301	8-752-059-67	IC CXA1465AS																																																																																										
C210	1_136_165_00	FILM	0.IMF		rs46 (US)) 50V		<jun< td=""><td>IPER RESISTOR></td><td></td><td></td></jun<>	IPER RESISTOR>																																																																																										
C318 C319 C320	1-136-165-00 1-136-165-00 1-136-165-00	FILM FILM	0.1MF 0.1MF	5% 5% 5%	50V 50V 50V	JR200	1-216-295-00	METAL GLAZE 0	5% 1/100																																																																																									
C321 C322	1-124-360-00 1-136-153-00	ELECT FILM	1000MF 0.01MF	20% 5%	16V 50V		<c01< td=""><td>L></td><td></td><td></td></c01<>	L>																																																																																										
C323	1-126-176-11	ELECT	220NF	20%	107			INDUCTOR 10U																																																																																										
C324 C325	1-163-003-11 1-163-037-11	CERAMIC CHIP CERAMIC CHIP	330PF 0.022MF	10% 10%	50 V 25 V	L002	1-408-414-00 1-410-470-11	INDUCTOR 27U INDUCTOR 10U	H																																																																																									
C324 C325 C326 C327	1-136-169-00 1-136-169-00	FILM FILM	0.22MF 0.22MF	5% 5%	50V 50V			(XV-3	2TS46 (US) /3215 36 (US))																																																																																								
C328	1-124-902-00		0.47MF	20% 20%	50V		<tr <="" td=""><td>ANSISTOR></td><td></td><td></td></tr> <tr><td>C328 C329 C330</td><td>1-124-903-11 1-124-907-11</td><td>ELECT ELECT</td><td>1MF 10MF</td><td>20%</td><td>50V 50V</td><td>Q001</td><td>8-729-422-36</td><td>TRANSISTOR 2SB709A</td><td>-q</td><td></td></tr> <tr><td>C331 C332</td><td>1-124-907-11 1-164-489-11</td><td>ELECT CERANIC CHIE</td><td>10MF 0.22MF</td><td>20% 10%</td><td>16V</td><td>Q002 Q004</td><td>8-729-422-36 8-729-422-36</td><td>TRANSISTOR 2SB709A TRANSISTOR 2SB709A</td><td>,-Q</td><td></td></tr> <tr><td>C333</td><td>1-163-011-11 1-124-902-00</td><td>CERAMIC CHI</td><td>0.0015NF</td><td>10% 20%</td><td>50V : 50V</td><td>Q005 Q151</td><td>8-729-422-27 8-729-422-27</td><td>TRANSISTOR 2SD601A TRANSISTOR 2SD601A</td><td></td><td>}</td></tr> <tr><td>C333 C334 C335</td><td>1-124-902-00 1-163-001-11 1-124-903-11</td><td>CERAMIC CHIL</td><td>0.47MF 220PF 1MF</td><td>10% 20%</td><td>50V 50V</td><td>0201</td><td>9_720~42227</td><td></td><td></td><td>,</td></tr> <tr><td>C336 C337</td><td>1-124-903-11</td><td>ELECT</td><td>0.47MF</td><td>20%</td><td>50V</td><td>Q201 Q301 Q302</td><td>8-729-422-27 8-729-422-36 8-729-422-36</td><td>TRANSISTOR 2SB709A TRANSISTOR 2SB709A</td><td>.—Q</td><td></td></tr> <tr><td>C338 C340</td><td>1-136-153-00 1-124-903-11</td><td></td><td>0.01MF 1MF</td><td>5% 20%</td><td>50V 50V</td><td>0307 0307 0308</td><td>8-729-422-27 8-729-422-27 8-729-422-27</td><td>TRANSISTOR 2SD601A</td><td>,-Q</td><td></td></tr> <tr><td>C341 C342</td><td>1-163-005-11 1-163-414-91</td><td>CERAMIC CHI</td><td></td><td>10% 10%</td><td>50V 50V 100V</td><td>4200</td><td>0 147-444-41</td><td>TERROTOTE ZONGUIA</td><td>•</td><td></td></tr> <tr><td>UJ42</td><td>1 171-414-31</td><td>FILE</td><td>U. UU4(Mr</td><td>10%</td><td>1001</td><td>i i</td><td></td><td></td><td></td><td></td></tr>	ANSISTOR>			C328 C329 C330	1-124-903-11 1-124-907-11	ELECT ELECT	1MF 10MF	20%	50V 50V	Q001	8-729-422-36	TRANSISTOR 2SB709A	-q		C331 C332	1-124-907-11 1-164-489-11	ELECT CERANIC CHIE	10MF 0.22MF	20% 10%	16V	Q002 Q004	8-729-422-36 8-729-422-36	TRANSISTOR 2SB709A TRANSISTOR 2SB709A	,-Q		C333	1-163-011-11 1-124-902-00	CERAMIC CHI	0.0015NF	10% 20%	50V : 50V	Q005 Q151	8-729-422-27 8-729-422-27	TRANSISTOR 2SD601A TRANSISTOR 2SD601A		}	C333 C334 C335	1-124-902-00 1-163-001-11 1-124-903-11	CERAMIC CHIL	0.47MF 220PF 1MF	10% 20%	50V 50V	0201	9_720~42227			,	C336 C337	1-124-903-11	ELECT	0.47MF	20%	50V	Q201 Q301 Q302	8-729-422-27 8-729-422-36 8-729-422-36	TRANSISTOR 2SB709A TRANSISTOR 2SB709A	.—Q		C338 C340	1-136-153-00 1-124-903-11		0.01MF 1MF	5% 20%	50V 50V	0307 0307 0308	8-729-422-27 8-729-422-27 8-729-422-27	TRANSISTOR 2SD601A	,-Q		C341 C342	1-163-005-11 1-163-414-91	CERAMIC CHI		10% 10%	50V 50V 100V	4200	0 147-444-41	TERROTOTE ZONGUIA	•		UJ42	1 171-414-31	FILE	U. UU4(Mr	10%	1001	i i				
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	<res< td=""><td>ISTOR></td><td></td><td></td><td></td><td></td><td>R074</td><td>1-216-295-00</td><td>METAL GLAZE</td><td>0 5%</td><td>1/10W</td></res<>	ISTOR>					R074	1-216-295-00	METAL GLAZE	0 5%	1/10W
R002 R003 R004 R005 R006	1-216-033-00 1-216-033-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 220 220 220 1K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R075 R076 R078 R079 R080	1-216-295-00 1-216-295-00 1-216-073-00 1-216-295-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 5% 0 5% 10K 5% 0 5% 10K 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R007 R008 R009 R011 R012	1-216-033-00 1-216-033-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	220 220 220 220 220 220	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R082 R083 R086 R087 R089	1-216-073-00 1-216-089-00 1-216-089-00 1-216-049-00 1-216-083-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 5% 47K 5% 47K 5% 1K 5% 27K 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R013 R016 R017 R018	1-216-033-00 1-216-033-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	220 220 220 220 220 220	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R090 R091 R092 R093	1-216-073-00 1-216-073-00 1-216-073-00 1-216-295-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 5% 10K 5% 10K 5% 0 5%	1/10W 1/10W 1/10W 1/10W
R019 R020		METAL GLAZE	220		1/10W		R150	1-216-097-00		100K 5% (KV-32TS46(U	1/10W S)/32TS36(US))
RO21 RO22	1-216-073-00	METAL GLAZE METAL GLAZE	10K 10K	5% 5% 5% 5%	1/10W 1/10W		R151	1-216-049-00	METAL GLAZE		1/10W S)/32TS36(US))
R023 R025	1-216-033-00	METAL GLAZE METAL GLAZE	220 220	5% 5%	1/10W 1/10W		R152	1-216-049-00	METAL GLAZE	1K 5% (KV-32TS46 (U	1/10W IS)/32TS36(US))
R026	1-216-097-00	METAL GLAZE	100K	5%	1/10W		R153	1-216-069-00	METAL GLAZE	6.8K 5%	1/10W IS)/32TS36(US))
R027 R028	3 1-216-073-00	METAL GLAZE METAL GLAZE	1M 10K	5% 5% 5% 5%	1/10W 1/10W		R154	1-216-041-00	METAL GLAZE	470 5%	1/10W US)/32TS36(US))
R029 R030		METAL GLAZE METAL GLAZE	4.7K 10K	5%	1/10W 1/10W		R155	1-216-049-00	METAL GLAZE	1K 5%	1/10W IS)/32TS36(US))
R031 R032 R033 R034	1-216-033-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	220 220 220 220	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W		R156 R157	1-216-073-00 1-216-073-00	METAL GLAZE	10K 5% 10K 5% (KV-32TS46(I	1/10W 1/10W US)/32TS36(US))
R03		METAL GLAZE	220	5%	1/10W		R158	1-216-073-00	METAL GLAZE	10K 5%	1/10W US)/32TS36(US))
R036 R03	1-216-033-00 1-216-033-00	METAL GLAZE METAL GLAZE	220 220	5% 5% 5% 5%	1/10W 1/10W		R159	1-216-049-00	METAL GLAZE	1K 5%	1/10₩
R03	8 1-216-033-00 9 1-216-295-00	METAL GLAZE	220 0	5% 5%	1/10W 1/10W		R160	1-216-049-00	METAL GLAZE	1K 5%	US)/32TS36(US)) 1/10W US)/32TS36(US))
R04			1K	5%	1/10W		R161	1-216-049-00	METAL GLAZE	1K 5%	1/10W US)/32TS36(US))
R04 R04: R04: R04	2 1-216-049-00 3 1-216-049-00	METAL GLAZE METAL GLAZE	220 1K 1K 4.7K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W		R162	1-216-065-00		4.7K 5% (KV-32TS46(1/10W US)/32TS36(US))
R04			4.7K	5%	1/10W		R163	1-216-065-00		4.7K 5% (KV-32TS46(1/10W US)/32TS36(US))
R04 R04 R04	7 1-216-065-00	METAL GLAZE	4.7K 4.7K 10K	5% 5%	1/10W 1/10W 1/10W		R164	1-216-065-00			US)/32TS36(US))
R04 R05	9 1-216-049-00	METAL GLAZE	1 K 1 K	5% 5%	1/10% 1/10%	}	R165	1-216-065-00		(KV-32T546(us)/32TS36(US))
R05			10K		1/10%		R166		METAL GLAZE	1K (KV-32T546(1/10W US)/32TS36(US))
R05 R05 R05	2 1-216-065-00 3 1-216-049-00	METAL GLAZE METAL GLAZE	4.7K 1K 1K	5% 5% 5%	1/10V 1/10V 1/10V	ń Ŋ	R168	1-216-049-00) METAL GLAZE) METAL GLAZE	(KV-32TS46(1/10W US)/32TS36(US)) 1/10W
RO5	5 1-216-033-00	METAL GLAZE	220	5%	1/100	N V-32TS46	R202	1-216-073-00	METAL GLAZE		1/10W 1/10W
ROS ROS	1-216-073-00 1-216-065-00	METAL GLAZE	10K 4.7K	5% 5% 5%	1/100 1/100	d)	R204 R205	1-216-089-0 1-216-295-0	METAL GLAZE	47K 5% 0 5%	1/10W 1/10W
ROS			15K	5%	1/100		R206	1-216-295-0	O METAL GLAZE	0 5%	1/10W
RO6	3 1-216-033-00		2.2K 220	5%		₩ V-32TS46	R207 R208 R209	1-216-085-0 1-216-089-0 1-216-085-0	O METAL GLAZE O METAL GLAZE O METAL GLAZE	47K 5% 33K 5%	1/10W 1/10W 1/10W 1/10W
RO6 RO6			4.7K 4.7K	5% 5%	1/10 1/10		R210	1-216-089-0 1-216-033-0			1/10W
RO6 RO6	7 1-216-025-0	O METAL GLAZE	100	5% 5% 5%	1/10 1/10 1/10 (K	₩ .	R211 R212 R213 R218	1-216-025-0 1-216-025-0	O METAL GLAZE O METAL GLAZE	100 5%	1/10W 1/10W 1/10W

The components identified by shading and mark A are critical for safety.

Replace only with part number specified.

specified.

Les composants identifies par une trame et une marque & sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.



REF.NG. PART NO. DESCRIPTION REMARK REF.NO. PART NO. DESCRIPTION	Guinno.		anamalli Sii il										
	REF.NO.	PART NO.	DESCRIPTION				REMARK	REF.NO.	PART NO.	DESCRIPTIO	N -		REMARK
### ### ### ### ### ### ### ### ### ##	R220 R222 R223	1-216-033-00 1-216-089-00 1-216-045-00	METAL GLAZE METAL GLAZE METAL GLAZE	220 47K 680	5% 5% 5%	1/10W 1/10W 1/10W		C711 C712	1-164-083-11 1-164-081-11	CERAMIC CERAMIC	680PF 470PF	10% 10% 10%	50 V 50 V 50 V
R321 1-216-041-00 METAL GLAZE	R302 R303 R306	1-216-049-00 1-216-065-00 1-216-057-00	METAL GLAZE METAL GLAZE METAL GLAZE	1K 4.7K		1/10W 1/10W 1/10W		C732	1-164-081-11	CERAMIC CERAMIC	470PF 680PF	10% 10% 10% 10%	50 V 50 V 50 V 50 V
## ## ## ## ## ## ## ## ## ## ## ## ##	R313	1-216-119-00	METAL GLAZE	18K				 					
R329 :-216-033-00 METAL GLAZE 20 5% 1/10W R330 I-216-295-00 METAL GLAZE 20 5% 1/10W R331 I-216-676-711 METAL CHIP 13W 0.50X 1/10W D713 8-719-911-9 DIODE ISSI19 R332 I-216-057-00 METAL GLAZE 100 5% 1/10W D733 8-719-911-9 DIODE ISSI19 R334 I-216-687-01 METAL CHIP 3W 0.50X 1/10W D733 8-719-911-9 DIODE ISSI19 DIODE ISSI19 R334 I-216-687-01 METAL GLAZE 1W 5% 1/10W D751 8-719-911-19 DIODE ISSI19 DIODE ISSI19 R336 I-210-121-00 METAL GLAZE 1W 5% 1/10W D751 8-719-911-19 DIODE ISSI19 R336 I-210-290-00 METAL GLAZE 1W 5% 1/10W D770 8-719-911-19 DIODE ISSI19 R336 I-249-417-11 CARBON 1W 5% 1/10W D770 8-719-911-19 DIODE ISSI19 DIODE ISSI19 R339 I-249-417-10 METAL GLAZE 1% 5% 1/10W D771 8-719-911-19 DIODE ISSI19 R340 I-216-049-00 METAL GLAZE 1% 5% 1/10W D771 8-719-911-19 DIODE ISSI19 R341 I-216-049-00 METAL GLAZE 1% 5% 1/10W D770 8-719-911-19 DIODE ISSI19 R341 I-216-053-00 METAL GLAZE 0 5% 1/10W D790 8-719-911-19 DIODE ISSI19 R342 I-216-053-00 METAL GLAZE 0 5% 1/10W D790 8-719-911-19 DIODE ISSI19 R344 I-216-043-00 METAL GLAZE 1% 5% 1/10W D790 8-719-911-19 DIODE ISSI19 R344 I-216-043-00 METAL GLAZE 1% 5% 1/10W D790 8-719-911-19 DIODE ISSI19 R344 I-216-043-00 METAL GLAZE 1% 5% 1/10W D790 8-719-911-19 DIODE ISSI19 R344 I-216-033-00 METAL GLAZE 100K 5% 1/10W R352 I-216-089-00 METAL GLAZE 100K 5% 1/10W R353 I-216-097-00 METAL GLAZE 100K 5% 1/10W R353 I-216-039-00 METAL GLAZE 20 5% 1/10W R354 I-216-033-00 METAL GLAZE 20 5% 1/10W R355 I-216-039-00 METAL GLAZE 20 5% 1/10W R356 I-216-295-00 METAL GLAZE 20 5% 1/10W R356 I-216-295-00 METAL GLAZE 20 5% 1/10W R356 I-216-295-00 METAL GLA	R323 R324 R327	1-216-041-00 1-216-041-00 1-216-653-11	METAL GLAZE METAL GLAZE METAL CHIP	470 470 1.2K	0.50%	1/10W 1/10W 1/10W		CN702	*1-508-768-00 *1-564-511-11	PIN, CONNEC PLUG, CONNE	TOR (5MM PIT	'СН) 6Р	
R332 1-216-025-00 METAL GLAZE 100 5% 1/10W D731 8-719-911-19 DIODE ISSI19 R334 1-216-687-11 METAL CHIP 33K 0.50% 1/10W D735 8-719-911-19 DIODE ISSI19 R335 1-216-129-00 METAL GLAZE 1M 5% 1/10W D770 8-719-911-19 DIODE ISSI19 R336 1-216-299-00 METAL GLAZE 1K 5% 1/10W D770 8-719-911-19 DIODE ISSI19 R337 1-216-049-00 METAL GLAZE 1K 5% 1/10W D770 8-719-911-19 DIODE ISSI19 R338 1-246-49-417-11 CARBON 1M 5% 1/10W D770 8-719-911-19 DIODE ISSI19 R339 1-216-049-00 METAL GLAZE 1K 5% 1/10W D771 8-719-911-19 DIODE ISSI19 D772 8-719-911-19 DIODE ISSI19 D772 8-719-911-19 DIODE ISSI19 D773 8-719-911	R329	1-216-033-00	METAL GLAZE	220	5% 5%	1/10W		D711			9		
## R335 1-216-12-00 METAL GLAZE M 5½ 1/10W D752 8-719-911-19 D10DE ISS119 ## R336 1-216-049-00 METAL GLAZE M 5½ 1/10W D771 8-719-911-19 D10DE ISS119 ## R337 1-216-049-00 METAL GLAZE M 5½ 1/10W D771 8-719-911-19 D10DE ISS119 ## R339 1-216-049-00 METAL GLAZE M 5½ 1/10W D773 8-719-911-19 D10DE ISS119 ## R330 1-216-049-00 METAL GLAZE M 5½ 1/10W D773 8-719-911-19 D10DE ISS119 ## R340 1-216-039-00 METAL GLAZE 33M 5½ 1/10W D779 8-719-911-19 D10DE D10DE D10DE ## R344 1-216-039-00 METAL GLAZE 1.5% 5½ 1/10W D791 8-719-911-19 D10DE D10DE D10DE ## R344 1-216-049-00 METAL GLAZE 33M 5½ 1/10W D793 8-719-911-19 D10DE D10DE D10DE ## R344 1-216-049-00 METAL GLAZE 33M 5½ 1/10W D793 8-719-911-19 D10DE D10DE D10DE ## R346 1-216-049-00 METAL GLAZE 8.2% 5½ 1/10W D793 8-719-911-19 D10DE D10DE D10DE ## R347 1-249-409-91 CARBON 220 5½ 1/4W D793 8-719-911-19 D10DE D10DE D10DE ## R350 1-216-089-00 METAL GLAZE 47K 5½ 1/10W D795 8-719-911-19 D10DE D10DE D10DE ## R351 1-216-039-00 METAL GLAZE 47K 5½ 1/10W D795 8-719-911-19 D10DE D10DE D10DE ## R352 1-216-039-00 METAL GLAZE 47K 5½ 1/10W D795 8-719-911-19 D10DE D10DE D10DE ## R353 1-216-039-00 METAL GLAZE 47K 5½ 1/10W D795 8-719-911-19 D10DE	R331 R332 R333	1-216-678-11 1-216-057-00 1-216-025-00	METAL CHIP METAL GLAZE METAL GLAZE	13K 2.2K 100	5% 5%	1/10W 1/10W		D712	8-719-911-19 8-719-911-19 8-719-911-19	DIODE 18811 DIODE 18811 DIODE 18811	9 9 9		
R339	R336 R337 R338	1-216-295-00	METAL GLAZE METAL GLAZE METAL GLAZE	1M 0 1K	5% 5% 5% 5%	1/10W 1/10W 1/10W	F	D770	8-719-911-19	DIODE ISSII	9		
R344	R341 R342	1-216-085-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	33K 0	5% 5% 5% 5%	1/10W 1/10W 1/10W		D777 D790 D791	8-719-109-68 8-719-911-19 8-719-911-19 8-719-911-19	DIODE RD3.6 DIODE 1SS11 DIODE 1SS11 DIODE 1SS11	ESB1 9 9 9		
R349 1-216-089-00 METAL GLAZE 47K 5% 1/10W R350 1-216-089-00 METAL GLAZE 47K 5% 1/10W R351 1-216-065-00 METAL GLAZE 47K 5% 1/10W R352 1-216-089-00 METAL GLAZE 47K 5% 1/10W R353 1-216-089-00 METAL GLAZE 47K 5% 1/10W R355 1-216-089-00 METAL GLAZE 47K 5% 1/10W R356 1-216-033-00 METAL GLAZE 20 5% 1/10W R374 1-216-033-00 METAL GLAZE 20 5% 1/10W R375 1-216-033-00 METAL GLAZE 20 5% 1/10W R375 1-216-033-00 METAL GLAZE 20 5% 1/10W R375 1-216-033-00 METAL GLAZE 20 5% 1/10W R375 1-216-033-00 METAL GLAZE 20 5% 1/10W R375 1-216-033-00 METAL GLAZE 20 5% 1/10W R376 1-216-033-00 METAL GLAZE 20 5% 1/10W R377 1-216-033-00 METAL GLAZE 20 5% 1/10W R379 1-216-033-00 METAL GLAZE 20 5% 1/10W R370 1-579-917-21 VIBRATOR, CRYSTAL 2001 1-579-917-21 VIBRATOR, CRYSTAL 2001 1-579-917-41 VIBRATOR, CRYSTAL 2001 1-567-505-11 OSCILLATOR, CRYSTAL 2001 1	R346 R347	1-216-109-00 1-216-071-00 1-249-409-91	METAL GLAZE CARBON	560 330K 8.2K 220 100K	5% 5% 5% 5%	1/10W 1/10W 1/4W	F	D794	8-719-911-19 8-719-911-19	DIODE 15511 DIODE 15511	9		
R354 1-216-033-00 METAL GLAZE 220 5% 1/10W R374 1-216-033-00 METAL GLAZE 220 5% 1/10W R375 1-216-033-00 METAL GLAZE 220 5% 1/10W CTRANSISTOR> CRYSTAL>	R349 R350	1-216-089-00	METAL GLAZE	47K				J701 A			TURE TURE		
CRYSTAL>	R351 R352	1-216-065 - 00 1-216-089-00	METAL GLAZE	4.7K 47K		1/10W 1/10W			<coi< td=""><td>L></td><td></td><td></td><td></td></coi<>	L>			
CRYSTAL>	R356 R374	1-216-295-00	METAL GLAZE	0 220	5% 5% 5%	1/10W 1/10W		L701			47UH		
X001 1-579-917-21				250	J#	1, 10"			8-729-926-73	TRANSISTOR	2SC3271-N		
#A-1331-264-A C BOARD, COMPLETE #A-1331-264-A C BOARD, COMPLET	X001	1-579-917-21 1-579-917-41	VIBRATOR, CR VIBRATOR, CR	YSTAL	ı. I.			Q731 Q732	8-729-926-73 8-729-119-78	TRANSISTUR	2SC3271-N 2SC2785-HFE		
*A-1331-264-A C BOARD, COMPLETE						*****	******	⊧¦ Q770	8-729-119-76	TRANSISTOR	2SA1175-HFE		
CAPACITOR> C700 1-102-074-00 CERAMIC		*A-1331-264-A						Q772	8-729-200-17	TRANSISTOR	2SA1071-0		
C701 1-162-114-00 CERAMIC 0.0047MF 2KV C702 1-106-375-12 MYLAR 0.022MF 99% 200V R700 1-247-739-11 CARBON 100 C703 1-106-375-12 MYLAR 0.022MF 99% 200V R701 1-244-941-00 CARBON 680K C704 1-162-116-00 CERAMIC 680PF 10% 2KV R702 1-249-496-11 CARBON 100K R705 1-123-946-00 ELECT 4.7MF 20% 250V R704 1-216-398-11 METAL 0XIDE 5.6		<ca< td=""><td>PACITOR></td><td></td><td></td><td></td><td></td><td>Q790</td><td>8-729-119-78</td><td>TRANSISTOR</td><td>2SC2785-HFE</td><td></td><td></td></ca<>	PACITOR>					Q790	8-729-119-78	TRANSISTOR	2SC2785-HFE		
C702		1-162-114-00	CERAMIC			10%			<res< td=""><td>SISTOR></td><td></td><td></td><td></td></res<>	SISTOR>			
	C702 C703 C704	1-106-375-12 1-106-375-12 1-162-116-00	MYLAR MYLAR CERAMIC	0.022 0.022 680PF	MF MF	99% 10%	200V 200V 2KV	R701 R702 R703	1-244-941-00 1-249-496-11 1-249-496-11	CARBON CARBON CARBON	680K 5% 100K 5% 100K 5%	1/2 1/2 1/2 1/2	ki ki ki
								R704	I-216 -3 98-11	METAL OXIDE	5 5.6 5%	3₩	?

CV-27TS29/27TS32/27TS36 RM-Y116 RM-Y117 RM-Y118 CV-32TS36/32TS46 RM-Y118 RM-Y118 SA-W200



Les composants identifies par une trame et une marque A sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

The components identified by shading and mark Δ are critical for safety.

Replace only with part number specified.

	REF.NO.	PART NO.	DESCRIPTION				REMARK	REF. NO.	PART NO.	DESCRIPTIO	DN 		REMARK
	R705 R706 R710 R711 R712	1-216-398-11 1-214-921-00 1-247-758-11 1-249-405-11 1-215-924-00	METAL OXIDE CARBON CARBON CARBON METAL OXIDE	5.6 220K 3.3K 100 15K	5% 5% 5% 5%	3W 1/2W 1/2W 1/4W 3W	F	C1533	1-124-477-11 1-124-916-11 1-124-477-11 1-136-756-11	ELECT ELECT	47MF 22MF 47MF 0.24MF	20% 20% 20% 5%	16V 25V 16V 200V
	R714 R716 R717	1-249-425-11 1-249-417-11 1-249-393-11	CARBON CARBON CARBON	4.7K 1K 10	5% 5%	1/4W 1/4W 1/4W		- CN122	<con *1-573-299-11</con 	NECTOR>	ROARD TO ROA	RD 10P	
	R718 R730	1-249-413-11 1-247-758-11	CARBON CARBON	470 3.3K	5% 5% 5%	1/4W 1/2W			*1-573-299-11				
	R731 R732 R734	1-249-405-11 1-215-924-00 1-249-425-11	CARBON METAL OXIDE CARBON	100 15K 4.7K	5% 5% 5% 5%	1/4W 3W 1/4W	F	D1501	<dio 8-719-911-19</dio 		19		
	R736	1-249-411-11 1-249-393-11	CARBON CARBON	330 10	5% 5%	1/4W 1/4W		D1502	8-719-801-35 8-719-980-78 8-719-300-33	THYRISTOR S	SHOR3D42 3-006		
	R750 R751 R752	1-247-758-11 1-249-405-11 1-215-924-00	CARBON CARBON METAL OXIDE	3.3K 100 15K	5% 5% 5% 5%	1/2W 1/4W 3W	F	D1505	8-719-911-19 8-719-911-19	DIODE 18811	.9 .9		
	R754 R756	1-249-425-11 1-249-411-11	CARBON CARBON	4.7K 330		1/4W 1/4W		D1508	8-719-911-19 8-719-110-17 8-719-110-17	DIODE RD10E	SB2 SB2		
	R757 R770 R771	1-249-393-11 1-249-433-11 1-249-409-91	CARBON CARBON CARBON	10 22K 220	5% 5% 5% 5%	1/4W 1/4W 1/4W	F	D1510	8-719-911-19 8-719-300-33	DIODE RU-3/			
	R772 R773	1-249-409-91 1-249-409-91	CARBON CARBON	220 220		1/4W 1/4W	F	D1516	8-719-911-19 8-719-913-44 8-719-911-19	DIODE 18811 DIODE ERA82	19 2 -004		
	R774 R775 R776	1-249-437-11 1-249-417-11 1-249-409-91	CARBON CARBON CARBON	47K 1K 220	5% 5% 5%	1/4W 1/4W 1/4W	F		<10				
	R790 R791	1-249-413-11 1-249-412-11	CARBON CARBON	470 390	5%	1/4W 1/4W		IC1501	8-752-052-88 2 8-759-982-10	IC CXA1526F	o A		
•	R794 R796	1-249-424-11 1-249-424-11 1-249-424-11	CARBON CARBON CARBON	3.9K 3.9K 3.9K	5% 5% 5%	1/4W 1/4W 1/4W			4 8-759-135-80	1C UPC358C			
	R798 R799	1-249-437-11 1-249-437-11	CARBON CARBON	47K 47K	5% 5%	1/4W 1/4W		L1502	<01 1-459-592-11	COIL (WITH	CORE) (PMC)		
		<vai< td=""><td>RIABLE RESISTO</td><td>R></td><td></td><td></td><td></td><td>L1504</td><td>1-459-474-11</td><td>COIL (WITH</td><td>CORE)</td><td></td><td></td></vai<>	RIABLE RESISTO	R>				L1504	1-459-474-11	COIL (WITH	CORE)		
	RV701A RV702	1-241-656-21 1-230-641-11	RES, ADJ, ME RES, ADJ, ME	TAL FI	LM 110 AZE 2.	N - 2M		0.501		ANSISTOR>	occoper upp		
		******						Q1502 Q1503	8-729-119-76	TRANSISTOR	2SU2785-HFE 2SD774-34 2SA1175-HFE	,	
		*A-1341-622-A	E BOARD, COM	PLETE	(KV-32	TS36/32	27546)	Q1506 Q1507	8-729-119-78	TRANSISTOR	2SC2785-HFE 2SC2785-HFE		
		*1-508-765-00	PIN, CONNECT	OR (5M	M PITC	H) 3P		Q1508 Q1509 Q1511	8-729-140-97	TRANSISTOR	2SB734-34 2SB734-34 2SA1175-HFE		
	C1501		PACITOR> ELECT	470W	,	20*	1611	Q1514 Q1519	8-729-209-15	TRANSISTOR	2SD2012 2SC2785-HFE		
	C1502 C1503 C1504	1-126-103-11 1-137-372-11 1-102-234-00 1-136-165-00	FILM	470MF 0.022 270PF 0.1MF	MF	20% 5% 10%	16V 50V 500V 50V	Q1520	8-729-119-78	TRANSISTOR	2SC2785-HFE		
	C1505	1-136-165-00	FILM ELECT	10MF		57 207	50Y		<re:< td=""><td>SISTOR></td><td></td><td></td><td></td></re:<>	SISTOR>			
	C1507 C1509 C1510	1-124-907-11 1-136-165-00 1-137-370-11	ELECT FILM FILM	10MF 0.1MF 0.01M		20% 5% 5% 5% 5%	50V 50V 50V	R1501 R1502 R1503	1-249-409-11		220 5% 220 5% 33K 5%	1/4W 1/4W 1/4W	
	C1516 C1519	1-136-165-00 1-136-104-00	FILM	0.1M 0.16	ì	5% 5%	50V 200V	R1504 R1505	1-249-429-11	CARBON CARBON	10K 5% 2.2K 5%	1/4W 1/4W	
	C1522 C1523 C1524	1-124-360-00 1-136-177-00 1-124-927-11	FILM	10001 1MF 4.7MI		20% 5% 20%	16V 50V 50V	R1506 R1507 R1508	1-249-410-11	CARBON CARBON CARBON	3.3K 5% 270 5% 47K 5% 10K 5% 47K 1%	1/4W 1/4W 1/4W	
	C1524 C1529 C1530	1-124-927-11 1-124-907-11 1-124-907-11	ELECT	10MF 10MF		20% 20% 20%	50V 50V	R1509 R1510	1-249-429-11	CARBON	10K 5% 47K 1%	1/4W 1/4W)
								1					

KV-27TS29/27TS32/27TS36 RM-Y116 RM-Y117 RM-Y118 KV-32TS36/32TS46 RM-Y118 RM-Y118 SA-W200

The components identified by shading and mark \triangle are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque & sont critiques pour la securite.

Ne les remplacer que par une piece portant le numero specifie.



	DARK NO				D. D. LAND II.	1000 00	ninn vo	20002100101			
REF.NO.	PART NO.	DESCRIPTION			REMARK	KEF.NU.	PART NO.	DESCRIPTION			REMARK
	1-216-379-11 1-249-423-11 1-247-885-00 1-215-905-11 1-249-417-11				F F	C524 C525 C526 C527 C528	1-102-212-00 1-124-902-00 1-106-395-00 1-124-341-00 1-136-113-00	CERAMIC ELECT MYLAR ELECT FILM	820PF 0.47MF 0.15MF 1MF 2MF	10% 20% 10% 20%	500V 50V 200V 200V 200V
R1522 R1527 R1528 R1529	1-249-417-11 1-249-417-11 1-249-417-11 1-249-438-11 1-249-434-11		1K 5% 1K 5% 1K 5% 56K 5% 27K 5%		F	C529 C530 C530 C531	1-137-410-11 1-104-770-11 1-104-844-11 1-124-477-11 1-136-165-00	FILM FILM CAP, FILM (S ELECT	0.001MF 0.62MF	J 76	100V 200V 25V 50V
R1533 R1534 R1535 R1536	1-249-427-11 1-249-424-11 1-249-425-11 1-215-857-11	CARBON CARBON		1/4W 1/4W 1/4W 1/4W 1W	F	C533 C534 C535 C536 C538	1-124-927-11 1-136-161-00 1-124-911-11 1-137-421-91 1-136-161-00	BLECT FILM ELECT FILM FILM		20% 5% 20% 10% 5%	50 V 50 V 50 V 100 V 50 V
R1538 R1541 R1543 R1546	1-249-404-00 1-216-379-11 1-249-441-11 1-249-414-11 1-215-885-00	CARBON METAL OXIDE	100K 5% 560 5% 68 5%			:	1-137-366-11 1-137-366-11 1-130-481-00 1-124-927-11 1-164-079-11			5% 5% 20%	50 V 50 V 50 V 50 V 50 V
R1554 R1556 R1559 R1564	1-249-429-11 1-249-435-11	CARBON CARBON CARBON CARBON	5.6K 5% 10 5% 56K 5% 10K 5% 33K 5%	1/4W 1/4W 1/4W 1/4W 1/4W		C548 ▲ C550 C553 C561	.1-162-116-91 1-106-387-00 (1-164-079-11 1-162-815-11	CERANIC MYLAR CERANIC CERANIC	680PF 0.068MF 330PF 47PF	10% 10% 10% 5% 20%	2K V 200V 50 V 50 OV 16 OV
R1578 R1582 R1583	1-249-411-11 1-249-421-11	CARBON CARBON CARBON CARBON	330K 5% 470 5% 3.3K 5% 330 5% 2.2K 5%	1/4W 1/4W 1/4W 1/4W		C598 C600 C601 A C602 A C603 A	1-124-342-00 1-124-907-11 1-136-311-51 1-136-311-51 1-136-311-51 1-162-578-81	ELECT ELECT FILM FILM	3.3MF 10MF 0.47MF 0.47MF	20% 20% 20% 20% 20%	160V 50V 125V 125V 125V
R1586 *****	1-249-441-11 1-247-891-00 ***********************************	CARBON		1/40	**************************************	C604 ∆ C607 C608 C609	1-104-757-11 1-104-757-11 1-136-169-00	ELECT ELECT FILM	470MF 470MF 0.22MF	20% 20% 20% 5% 5%	40 OV 20 OV 20 OV 50 V 50 V
	*A-1346-129-A	D BOARD, COMP	****	27TS29)	TS36)	C611 C612 C613 C614 C616	1-136-169-00 1-136-169-00 1-136-169-00 1-164-625-11 1-164-625-11 1-124-907-11	FILM FILM CERAMIC CERAMIC FIRST	0.22MF 0.22MF 680PF 680PF 10MF	5% 5% 10%	50 V 50 V 50 OV 50 OV 50 OV
	4-382-854-11	SCREW (M3X10)	, P, SW (+)						20%	35 V
C501 C502	<cap 1-124-557-11 1-162-131-11</cap 	ACITOR> ELECT	1000MF 220PF	20% 10%	25V 2KV	C618 C619 C620 C621	1-124-618-11 1-124-557-11 1-124-360-00 1-164-644-11 1-126-356-11	ELECT ELECT CERAMIC ELECT	1000MF 1000MF 330PF 220MF	20% 20% 10% 20%	25 V 16 V 50 OV 16 OV
C503 C504 C505	1-124-557-11 1-137-366-11 1-124-916-11	ELECT FILM ELECT	1000MF 0.0022MF 22MF	20% 5% 20%	25V 50V 25V	C626	1-162-117-00 1-136-487-81 1-129-744-91 1-124-478-11	CERAMIC FILM FILM ELECT	100PF 0.015MF 0.027MF 100MF	10% 5% 10% 20% 20%	50 QV 50 V 40 QV 25 V
C506 C507 C509 C511 C512	1-124-929-11 1-124-046-00 1-124-916-11 1-123-024-21 1-102-212-00	ELECT ELECT ELECT ELECT CERAMIC	22MF 10MF 22MF 33MF 820PF	20% 20% 20% 10%	100V 160V 25V 160V 500V	C627 C628 ∆ C634 C635 C636	1-124-443-00 .1-164-497-51 1-165-127-11 1-124-477-11 1-137-374-11	CERAMIC CERAMIC CERAMIC ELECT FILM	100MF 470PF 470PF 47MF 0.047MF	20% 20% 10% 20% 5%	10 V 40 OV 50 OV 16 V 50 V
C513 C514 C515 C517 C518	1-102-212-00 1-102-244-00 1-137-416-11 1-162-116-00 1-162-116-00	CERAMIC CERAMIC FILM CERAMIC CERAMIC	820PF 220PF 0.01MF 680PF 680PF	10% 10% 10% 10% 10%	500V 500V 100V 2KV 2KV	C640 C641 C642	1-124-916-11 1-124-902-00 1-124-443-00 1-137-217-11	ELECT ELECT ELECT FILM	0.47MF 100MF 0.01MF	20% 20% 20% 5%	50 V 10 V 1. 25KV
C519 A	A. 1-137-024-11 A. 1-162-134-91	FILM CERANIC	0.02MF 470PF	3% 10%	2KV 2KV	C643 C645	1-137-217-11 1-137-218-11 1-102-125-00	FILM CERAMIC	0.012MF 0.0047MF	5% 10%	1. 25KV 50 V
	A. 1-136-316-51 1-106-383-00 1-102-002-00	FILM MYLAR CERAMIC	0.056MF 0.047MF 680PF	5% 99% 10%	630V 200V 500V	C646 C647 C684	1-126-101-11 1-124-916-11 1-124-907-11	ELECT ELECT ELECT	100MF 22MF 10MF	20% 20% 20%	16 V 25 V 50 V

KV-27TS29/27TS32/27TS36 RM-Y116 RM-Y117 RM-Y118 KV-32TS36/32TS46 RM-Y118 RM-Y118 SA-W200



32TS36	/32TS46 RM-Y118 SA-W200				tran	composants identif ne et une marqu	e 🛕 sont 🥻 shading and mark	
					Ne por	ques pour la securi les remplacer que pa tant le numero speci	arunepiece Replace only with fie. specified.	99%
REF.NO.	PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C695 C2205 C2208 C2210 C2211	1-124-907-11 1-124-925-11 1-124-925-11 1-124-120-11 1-124-477-11	ELECT 10MF BLECT 2.2M ELECT 2.2M ELECT 220M ELECT 47MF	F 20% F 20% F 20%	50V 50V 50V 25V 25V	D622 D623 D624 D626	8-719-911-19 8-719-911-19 8-719-911-19 8-719-510-48	DIODE 1SS119 DIODE 1SS119 DIODE 1SS119 DIODE DINZOR	
C2212 C2213 C2215 C2216 C2217	1-124-120-11 1-136-173-00 1-136-169-00 1-124-480-11 1-136-169-00	ELECT 220M FILM 0.47 FILM 0.22 ELECT 470M FILM 0.22	MF 5% MF 5% F 20%	25V 50V 50V 25V 50V	D627 D628 D633 D634 D635 D636	8-719-510-48 8-719-911-19 8-719-110-09 8-719-911-19 8-719-911-19 8-719-510-48	DIODE DINZOR DIODE 1SS119 DIODE RD8.2E5B3 DIODE ISS119 DIODE 1SS119 DIODE DINZOR	
C2218 C2219 C2220	1-124-557-11 1-124-557-11 1-124-925-11	ELECT 1000 ELECT 1000 ELECT 2.2M	MF 20%	25V 25V 50V	D637	8-719-911-19 8-719-911-19	DIODE ISSI19	
	<coni< td=""><td>NECTOR></td><td></td><td></td><td>R601 A</td><td><fus< td=""><td>E> FUSE, GLASS TUBE (6.3A/125</td><td>٧١</td></fus<></td></coni<>	NECTOR>			R601 A	<fus< td=""><td>E> FUSE, GLASS TUBE (6.3A/125</td><td>٧١</td></fus<>	E> FUSE, GLASS TUBE (6.3A/125	٧١
CN105 CN107 CN108	*1-573-979-11 *1-508-768-00 *1-580-798-11 1-573-296-11	CONNECTOR, BOARD PIN, CONNECTOR (5 CONNECTOR PIN (D) CONNECTOR, BOARD	MM PITCH) 6P ?) 6P TO BOARD 10P (KV-32TS4	6/32TS36)	FB501 FB502	. <fer 1-412-911-11="" 1-412-911-11<="" td=""><td>RITE BEAD> INDUCTOR, FERRITE BEAD INDUCTOR, FERRITE BEAD</td><td></td></fer>	RITE BEAD> INDUCTOR, FERRITE BEAD INDUCTOR, FERRITE BEAD	
CN113	1-573-296-11 *1-508-786-00 *1-508-765-00	PIN, CONNECTOR (SPIN, CONNECTOR (SPIN, CONNECTOR (SPIN)	(KV-32TS4 5MM PITCH) 2P 5MM PITCH) 3P	6/32TS36)	FB601 FB602 FB603	1-412-911-11 1-412-911-11 1-412-911-11	INDUCTOR, FERRITE BEAD INDUCTOR, FERRITE BEAD INDUCTOR, FERRITE BEAD	
CN115 CN116	*1-580-843-11 1-573-298-11 *1-691-616-11 *1-573-978-11	PIN, CONNECTOR (F CONNECTOR, BOARD CONNECTOR, BOARD CONNECTOR, BOARD	TO BOARD 20P TO BOARD 15P		FB604 FB605 FB606 FB613 FB614	1-412-911-11 1-412-911-11 1-412-911-11 1-412-911-11 1-412-911-11	INDUCTOR, FERRITE BEAD INDUCTOR, FERRITE BEAD INDUCTOR, FERRITE BEAD INDUCTOR, FERRITE BEAD INDUCTOR, FERRITE BEAD	
	<dio< td=""><td>DE></td><td></td><td></td><td></td><td><1C></td><td></td><td></td></dio<>	DE>				<1C>		
D501 D502 D503 D504 2 D505	8-719-976-64 8-719-979-85 8-719-979-85 8-719-302-44 8-719-936-84	DIODE RGP02-17 DIODE EGP20G DIODE EGP20G DIODE EL1Z-V1 DIODE RGP10GPKG3			I C501 I C504			
D506	8-719-945-80	DIODE ERCO6-15S			10601/		POWER MODULE DM-48	
D507 D508 D509 D510	8-719-945-80 8-719-900-26 8-719-936-84 8-719-908-03	DIGDE ERCO6-15S DIGDE ERD29-08J DIGDE RGP10GPKG3 DIGDE GP08D			15000	<ic></ic>		
D511 D512 D513 D514 D515	8-719-908-03 8-719-109-84 8-719-908-03 8-719-911-19 8-719-911-19	DIODE GPO8D DIODE RD5.1ESB1 DIODE GPO8D DIODE 1SS119 DIODE 1SS119			1C610	8-759-924-12 8-759-701-79 8-759-982-10 8-759-150-61	IC L78LR05D-MA IC LM7805CT IC LM7812CT IC RC7809FA IC UPC78L05T	
D601 D602 2 D603 D605 D607	8-719-911-19 8-8-719-510-63 8-719-500-69 8-719-500-69 8-719-510-02	DIODE 1SS119 DIODE D4SB6OL-F DIODE S3V10SS DIODE S3V10SS DIODE D1NS4		2.3	L502	<001 1-421-465-00	(L> COIL, FERRITE CHOKE 68UH	
D608 D609 D610 D611 D612	8-719-510-02 8-719-510-02 8-719-510-02 8-719-510-02 8-719-031-80	DIODE DINS4 DIODE DINS4 DIODE DINS4 DIODE DINS4 DIODE DESCAMR			L503 L504 L505 L506	1-412-524-11 1-410-669-31 1-459-104-00 1-422-613-11 1-412-553-11	INDUCTOR 8.2UH INDUCTOR 33UH COIL, WITH CORE COIL, AIR CORE INDUCTOR 3.3MMH	
D613 D614 D615 D616 D617	8-719-022-97 8-719-110-33 8-719-027-43 8-719-027-43 8-719-027-43	DIODE D2S4MF DIODE RD12ESB3 DIODE S2L2OUF DIODE S2L2OUF DIODE S2L2OUF			L509 Z	1-460-173-21 1-406-607-11 1-412-524-11		M (HLC) . Sign
D618 D619	8-719-027-43 8-719-510-02	DIODE S2L20UF			1			

The components identified by I in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-

ray radiation.
Should replacement be required, replace only

with the value originally used.



The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number Les composants identifies par une trame et une marque A sont critiques pour la securite.

Ne les remplacer que par une piece portant le numero specifie. specified.

REF.NO.	PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION				REMARK
PM501 PM501	<pro 1-810-061-11 1-810-061-21</pro 	arcmon Monus r.		/27TS32/27TS29) -32TS46/32TS36)	R547	1-247-883-00 1-249-429-11 1-249-429-11 1-216-371-00 1-249-411-11 1-249-415-11	CARBON	150K		1/4W 1/4W 2W 1/4W	t F
PS2201/		LINK>			R561 R562 R563 R564 R566	1-249-429-11 1-215-437-00 1-249-429-11 1-249-433-11 1-249-435-11	CARBON METAL CARBON CARBON CARBON	10K 4.7K 10K 22K 33K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W	
Q502 Q503 Q505 Q591	<tra 8-729-119-80 8-729-809-29 8-729-119-78</tra 	NSISTOR> TRANSISTOR 2SI TRANSISTOR 2SI TRANSISTOR 2SI	C2688-LK C4159-E C2785-HFE		R580 R601 A R602 A R603 R605	1-249-411-11 1-202-888-91 1-202-888-91 1-249-419-11 1-247-893-11	CARBON SOLID SOLID CARBON CARBON	330 2.2M 2.2M 1.5K 390K	5% 20% 20% 5%	1/4W 1/2W 1/2W 1/4W 1/4W	ma Valu
Q601 Q602 Q603 Q604 Q605	8-729-019-51 8-729-019-51 8-729-119-76 8-729-119-78 8-729-119-78	TRANSISTOR 2SI TRANSISTOR 2SI TRANSISTOR 2SI TRANSISTOR 2SI TRANSISTOR 2SI	C4834MNP C4834MNP A1175-HFE C2785-HFE	1/4W F 1W F 1W F 1/4W F 2W F	R606 R607 A R608 R609 R610	1-247-893-11 1-202-933-61 1-215-860-11 1-216-352-11 1-216-352-11	CARBON FUSIBLE METAL OXIDE METAL OXIDE METAL OXIDE	390K 0.1 33 1.8 1.8	5% 10% 5% 5%	1/4W 1/2W 1W 1W 1W	<u> </u>
Q611 Q613 Q614 Q2202 Q2203	8-729-119-78 8-729-924-90 8-729-119-78 8-729-119-78 8-729-119-76	TRANSISTOR 2SI TRANSISTOR 2SI TRANSISTOR 2SI TRANSISTOR 2SI TRANSISTOR 2SI	C2785-HFE B1370-EF C2785-HFE C2785-HFE A1175-HFE		R611 R612 R613 R614 R615	1-216-468-91 1-216-468-91 1-215-860-11 1-215-860-11 1-249-421-11	METAL OXIDE METAL OXIDE METAL OXIDE METAL OXIDE CARBON	82K 82K 33 33 2.2K	5% 5% 5% 5%	2₩ 2₩ 1₩ 1₩ 1/4₩	ተ ቀ ቀ ቀ
R501 R503	<res< td=""><td>ISTOR> CARBON</td><td>0.56 5%</td><td>1/4W F</td><td>R616 R617 R618 R619 R621</td><td>1-249-417-11 1-249-377-11 1-249-377-11 1-249-377-11 1-249-377-11</td><td>CARBON CARBON CARBON CARBON CARBON</td><td>1K 0.47 0.47 0.47 0.47</td><td>5% 5% 5% 5% 5% 5%</td><td>1/4W 1/4W 1/4W 1/4W 1/4W</td><td>4 4 4 4</td></res<>	ISTOR> CARBON	0.56 5%	1/4W F	R616 R617 R618 R619 R621	1-249-417-11 1-249-377-11 1-249-377-11 1-249-377-11 1-249-377-11	CARBON CARBON CARBON CARBON CARBON	1K 0.47 0.47 0.47 0.47	5% 5% 5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W	4 4 4 4
R504 R505 R506 R507 R508	1-215-872-11 1-249-377-11 1-215-886-11 1-249-429-11 1-249-425-11	METAL OXIDE CARBON METAL OXIDE	3.3K 5% 0.47 5% 100 5%	1W F 1/4W F 2W F	R622 R623 R624 R625 R627	1-249-377-11 1-249-377-11 1-249-377-11 1-249-377-11 1-249-377-11	CARBON CARBON CARBON CARBON CARBON	0.47 0.47 0.47 0.47 0.47	5%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%	1/4W 1/4W 1/4W 1/4W 1/4W	क क क क क क
R509 R511 ▲ R512	1-249-389-11 1-249-389-11 1-249-389-11	CARBON CARBON CARBON METAL OXIDE	10K 5% 4.7K 5% 4.7 5% 4.7 5% 2.2 5%	1/4W F 1/4W F 1/4W F 3W F 1/4W F 1/4W F 1/4W F	R628 R629 R630 R632 R633	1-249-388-11	CARBON CARBON METAL OXIDE CARBON CARBON	0.47 3.9 10 1K 100	5% 5% 5% 5%	1/4W 1/4W 1W 1/4W 1/4W	H H
R514 R515 R516 R517	1-249-429-11 1-216-363-00 1-249-401-11 1-215-916-00 1-215-916-00	CARBUN METAL OXIDE CARBON METAL OXIDE METAL OXIDE CARBON	680 57	1/4W . 2W F 1/4W 3W F	R635 R636 R637 R638 R639	1-249-413-11 1-249-383-11 1-249-421-11 1-249-423-11 1-249-423-11	CARBON CARBON CARBON CARBON CARBON	470 1.5 2.2K 3.3K 3.3K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W	.
R521 R521 R522	1-249-423-11 1-249-411-11 1-215-886-11	CARBON CARBON METAL OXIDE METAL OXIDE	3.3K 5% 330 5% 100 5%	1/4W F 1/4W 1/4W 2W F	R640 ▲ R643	1-202-893-91 1-216-379-11 1-212-853-61 1-249-377-11 1-249-429-11	SOLID METAL OXIDE FUSIBLE CARBON CARBON	8.2M 6.8 6.8 0.47 10K	20% 5% 5% 5% 5%	1/2W 2W 1/4W 1/4W 1/4W	F F
R524 A R526 R527 R528	1-247-887-00 1-215-861-00 1-260-326-71	CARBON CARBON METAL OXIDE CARBON METAL	220K 5% 47 5% 680 5%	1/4W 1/4W 1W F 1/2W	R647 R648 R649 R650	1-249-433-11 1-249-414-11 1-216-431-11 1-249-405-11	CARBON CARBON METAL OXIDE CARBON	22K 560 560 100 6.8	5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5	1/4W 1/4W 1W 1/4W 1/2W	F
R531 R532 R534 R535	1-247-903-91 1-215-446-00 1-249-385-11 1-216-453-00	CARBON METAL CARBON METAL OXIDE CARBON	1M 5% 11K 1% 2.2 5% 270 5%	1/4W 1/4W 1/4W F 2W F	R652 <u>A</u> R653 R654 R655	1-212-954-61 1-249-381-11 1-216-385-11 1-249-417-11	FUSIBLE CARBON METAL OXIDE CARBON	6.8 1 0.47 1K		1/2W 1/4W 3W 1/4W	F
R539 R543	1-249-389-11 1-215-459-00 1-249-419-11 1-249-431-11	METAL CARBON CARBON	4.7 5% 39K 1% 1.5K 5% 15K 5%	1/4W F 1/4W 1/4W 1/4W		1-249-381-11 1-249-417-11 1-249-389-11	CARBON CARBON CARBON	1 1K 4.7	5% 5%	1/4W 1/4W 1/4W	F



Les composants identifies par une trame et une marque & sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

The components identified by shading and mark Δ are critical tor safety. Replace only with part number specified.

REF.NO. PART NO.	DESCRIPTION				REMARK	REF. NO.	PART NO.	DESCRIP	TION			REMARK																																																																																																																																															
R659 1-247-883-00 R660 1-249-433-11 R661 1-249-406-11 R690 1-249-423-11 R691 1-249-423-11	CARBON CARBON CARBON	150K 22K 120 3.3K 3.3K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W		1	1-124-903-11 1-124-903-11	ELECT (1MF KV-32TS46/3 1MF KV-32TS46/3	2TS36/	20%	50V																																																																																																																																															
R2209 1-249-427-11 R2210 1-249-435-11 R2211 1-249-427-11 R2212 1-249-435-11	CARBON CARBON		5% 5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W		C1004	1-124-122-11 <con< td=""><td>ELECT NECTOR></td><td>100MF</td><td>:</td><td>20%</td><td>50 V</td></con<>	ELECT NECTOR>	100MF	:	20%	50 V																																																																																																																																															
R2215 1-249-425-11 R2216 1-249-437-11 R2217 1-249-435-11 R2218 1-249-441-11	CARBON CARBON CARBON CARBON		5% 5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W		1	*1-564-520-11 *1-564-523-31	PLUG, CO	KV-32TS46/3	21536/	27TS36	/27TS32)																																																																																																																																															
R2219 1-249-413-11 R2220 1-249-430-11 R2221 1-249-430-11 R2222 1-249-398-11	CARBON CARBON CARBON CARBON			1/4W 1/4W 1/4W 1/4W		D1004	<pio 1-810-039-11</pio 	LED UNIT																																																																																																																																																			
R2223 1-249-418-11 R2224 1-249-418-11 R2225 1-249-398-11	CARBON CARBON CARBON	_	5% 5% 5% 5%	1/4W 1/4W 1/4W		101001	<1C> 8-741-618-11		18-51																																																																																																																																																		
R2226 1-249-385-11 R2227 1-249-385-11 R2228 1-249-421-11 R2229 1-249-421-11	CARBON CARBON CARBON CARBON	2.2 2.2 2.2K 2.2K	5% 5% 5%	1/4W 1/4W 1/4W 1/4W		J1001	<jac 1-695-585-11</jac 	JACK BLO	CK, PIN (L KV-32TS46/3			/27TS32)																																																																																																																																															
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1 717 710 00	HDDA1					-	1-249-425-11	CARBON (75 KV-32TS46/3 4.7K	2ĪŜ36/:	27TS36 1/4₩	/27TS32)																																																																																																																																															
\$501 .1-572-707-11	TCH> SWITCH, LEVER SWITCH, LEVER					ł t	1-216-113-00	METAL GL	KV-32TS46/3	2TS36/: 5%	27TS36 1/1ດ⊌																																																																																																																																																
5502 1-312-101-11	Switch, Leven					R1004	1-249-425-11	CARBON	4.7K KV-32TS46/3	5%	1/48	/27T532\																																																																																																																																															
<tr <="" td=""><td>NSFORMER></td><td></td><td></td><td></td><td></td><td>R1005</td><td>1-216-113-00</td><td>METAL GL</td><td>AZE 470K (KV-32TS46/3</td><td>5%</td><td>1/10W</td><td></td></tr> <tr><td>T501 1-453-146-11 T502 1-437-195-14</td><td>TRANSFORMER ASTRANSFORMER,</td><td>SSY, FI</td><td>LYBACK</td><td>(NX-26</td><td>504A3)</td><td>R1007</td><td>1-216-073-00</td><td>METAL GL</td><td>AZE 10K</td><td>5%</td><td>1/10W</td><td></td></tr> <tr><td>T503 A. 1-424-545-22 T601 A. 1-423-593-11 T602 A. 1-424-220-21</td><td>TRANSFORMER, TRANSFORMER, TRANSFORMER,</td><td>FERRITE LINE FI LINE FI</td><td>E (PMT) ILTER ILTER</td><td>) (LFT) (LFT)</td><td></td><td>R1009 R1010 R1011</td><td>1-216-025-00 1-216-065-00 1-216-055-00 1-216-025-00</td><td>METAL GL METAL GL METAL GL</td><td>AZE 4.7K AZE 1.8K AZE 100</td><td>5% 5% 5% 5%</td><td>1/10W 1/10W 1/10W 1/10W</td><td></td></tr> <tr><td>T604 A 1-423-615-11</td><td>TRANSFORMER,</td><td>CONVER!</td><td>TER (P</td><td>IT)</td><td>DT)</td><td></td><td>1-216-049-00</td><td>METAL GL</td><td></td><td></td><td>1/10W</td><td></td></tr> <tr><td>T605 1-423-582-11 <th< td=""><td>TRANSFORMER, I</td><td>FERRITI</td><td>E (SBT</td><td>)</td><td></td><td>R1014</td><td>1-216-033-00 1-216-047-00 1-216-033-00</td><td></td><td>AZE 820</td><td>5% 5% 5%</td><td>1/10W 1/10W 1/10W</td><td></td></th<></td></tr> <tr><td>THP60 1A1-809-539-11</td><td>THERMISTOR, P</td><td>OSITIV</td><td>E</td><td></td><td></td><td></td><td><\$W]</td><td>TCH></td><td></td><td></td><td></td><td></td></tr> <tr><td><va< td=""><td>RISTOR></td><td></td><td></td><td></td><td></td><td></td><td>1-571-532-21 1-571-532-21 1-571-532-21</td><td></td><td></td><td></td><td></td><td></td></va<></td></tr> <tr><td>VDR601 1-807-288-11 VDR602 1-810-053-21 VDR603 1-810-053-21</td><td>VARISTOR</td><td></td><td></td><td></td><td></td><td>S1004 S1005</td><td>1-571-532-21 1-571-532-21</td><td>SWITCH, SWITCH,</td><td>TACTIL</td><td></td><td></td><td></td></tr> <tr><td>***********</td><td>*********</td><td>*****</td><td>*****</td><td>*****</td><td>******</td><td>\$1006 \$1007<u>/</u>1</td><td>1-571-532-21 1-571-532-23</td><td>SWITCH,</td><td>TACTIL</td><td>w. Sec. 1</td><td></td><td>4 2 P</td></tr> <tr><td>*1-646-717-11</td><td>H BOARD</td><td></td><td></td><td></td><td></td><td>*****</td><td>******</td><td>*******</td><td>********</td><td>****</td><td>*****</td><td>*******</td></tr> <tr><td><ca< td=""><td>PACITOR></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></ca<></td></tr> <tr><td>C1001 1-124-916-11</td><td></td><td>22MF 2TS46/3</td><td></td><td>20% 27TS36</td><td>25V /27TS32)</td><td>6 6</td><td></td><td></td><td></td><td></td><td></td><td></td></tr>	NSFORMER>					R1005	1-216-113-00	METAL GL	AZE 470K (KV-32TS46/3	5%	1/10W		T501 1-453-146-11 T502 1-437-195-14	TRANSFORMER ASTRANSFORMER,	SSY, FI	LYBACK	(NX-26	504A3)	R1007	1-216-073-00	METAL GL	AZE 10K	5%	1/10W		T503 A. 1-424-545-22 T601 A. 1-423-593-11 T602 A. 1-424-220-21	TRANSFORMER, TRANSFORMER, TRANSFORMER,	FERRITE LINE FI LINE FI	E (PMT) ILTER ILTER) (LFT) (LFT)		R1009 R1010 R1011	1-216-025-00 1-216-065-00 1-216-055-00 1-216-025-00	METAL GL METAL GL METAL GL	AZE 4.7K AZE 1.8K AZE 100	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W		T604 A 1-423-615-11	TRANSFORMER,	CONVER!	TER (P	IT)	DT)		1-216-049-00	METAL GL			1/10W		T605 1-423-582-11 <th< td=""><td>TRANSFORMER, I</td><td>FERRITI</td><td>E (SBT</td><td>)</td><td></td><td>R1014</td><td>1-216-033-00 1-216-047-00 1-216-033-00</td><td></td><td>AZE 820</td><td>5% 5% 5%</td><td>1/10W 1/10W 1/10W</td><td></td></th<>	TRANSFORMER, I	FERRITI	E (SBT)		R1014	1-216-033-00 1-216-047-00 1-216-033-00		AZE 820	5% 5% 5%	1/10W 1/10W 1/10W		THP60 1A1-809-539-11	THERMISTOR, P	OSITIV	E				<\$W]	TCH>					<va< td=""><td>RISTOR></td><td></td><td></td><td></td><td></td><td></td><td>1-571-532-21 1-571-532-21 1-571-532-21</td><td></td><td></td><td></td><td></td><td></td></va<>	RISTOR>						1-571-532-21 1-571-532-21 1-571-532-21						VDR601 1-807-288-11 VDR602 1-810-053-21 VDR603 1-810-053-21	VARISTOR					S1004 S1005	1-571-532-21 1-571-532-21	SWITCH, SWITCH,	TACTIL				***********	*********	*****	*****	*****	******	\$1006 \$1007 <u>/</u> 1	1-571-532-21 1-571-532-23	SWITCH,	TACTIL	w. Sec. 1		4 2 P	*1-646-717-11	H BOARD					*****	******	*******	********	****	*****	*******	<ca< td=""><td>PACITOR></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></ca<>	PACITOR>												C1001 1-124-916-11		22MF 2TS46/3		20% 27TS36	25 V /27TS32)	6 6						
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*1-646-717-11	H BOARD					*****	******	*******	********	****	*****	*******																																																																																																																																															
<ca< td=""><td>PACITOR></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></ca<>	PACITOR>																																																																																																																																																										
C1001 1-124-916-11		22MF 2TS46/3		20% 27TS36	25 V /27TS32)	6 6																																																																																																																																																					

KV-27TS29/27TS32/27TS36 RM-Y116 RM-Y117 RM-Y118 KV-32TS36/32TS46 RM-Y118 RM-Y118 SA-W200



								and the second	0,
REF. NO	. PART NO.	DESCRIPTION	•		REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
	*A-1394-415-A	UA BOARD, CON		S36/27TS	536)	CN144	1-750-395-11 *1-564-521-11 1-573-300-11	SOCKET, CONNECTOR 32P PLUG, CONNECTOR 6P CONNECTOR, BOARD TO BOA	(KV-32TS46)
	*A-1394-435-A	UA BOARD, COM		rs46) _.			1-750-395-11	(KV-32TS4	6/321536/271532)
	*A-1394-437-A	UA BOARD, COM	PLETE (KV-27T	\$29)		CN148	*1-564-517-11	PLUG, CONNECTOR 2P PLUG, CONNECTOR 4P	(KV-32TS46)
	*A-1394-441-A	UA BOARD, COM	PLETE (KV-27T	S32)		3 1 1 6	<dio< td=""><td>DE></td><td></td></dio<>	DE>	
						D401	8-719-110-17	DIODE RDIOESB2	< (ARRES ((ARRES))
	<cap.< td=""><td>ACITOR></td><td></td><td></td><td></td><td>D402</td><td>8-719-110-17</td><td></td><td>6/2/1556/2/1552}</td></cap.<>	ACITOR>				D402	8-719-110-17		6/2/1556/2/1552}
C401	1-163-031-11	CERAMIC CHIP	0.01MF (KV-32TS46/	/327536/	50V 27TS321	D403 D404	8-719-110-17 8-719-110-17	DIODE RD10ESB2 DIODE RD10ESB2	
C402 C405	1-124-916-11		22MF 22MF	20%	25V 25V	D405	8-719-110-17	DIODE RD10ESB2 (KV-32TS46/32TS3	6 /2 7T 536 /2 7T 532)
0403	1 127 710 11	85501	(KV-32TS46	/32TS36/		D408	8-719-110-17	DIODE RD10ESB2 (KY-32TS46/32TS3	
C406	1-124-903-11	ELECT	1NF (KV-32TS46)		50V 27TS32)	D410	8-719-110-17	DIODE RDIOESB2	0/211330/211332/
C407	1-124-903-11	ELECT	1MF (KV-32TS46)	20%	50V	D411 D429	8-719-110-17	DIODE RD10ESB2 DIODE RD10ESB2	
C408	1-124-916-11	ELECT	22MF (KV-32TS46,	20%	25 V	D430 D431	8-719-110-17	DIODE RD10ESB2 DIODE RD10ESB2	
C409 C410	1-124-903-11	ELECT	IMF IMF		50V 50V	1 1430	. 0 113 110 11		6/32TS36/27TS36)
C411	1-124-478-11	ELECT	100MF		25V 27TS29)	D437	8-719-110-17	DIODE RD10ESB2	6/32TS36/2 7 TS36)
C412	1-124-916-11	ELECT	22MF	20%	25 V			(17)2:54	0, 32,030, 21,030,
C413 C414	1-124-907-11 1-124-499-11	ELECT	10MF 1MF	20%	50V 50V		<10>		
C415 C416	1-124-499-11 1-124-907-11	ELECT	1MF 10MF	20%	50V	TOARS	0_752_062_06	IC M52470P (K IC CXA1545AS (KV-32TS4	ん/ユクサビスん/クグサビスん)
C417	1-124-902-00	ELECT	0.47MF		50V 50V	1C403 1C404	8-759-088-00 8-759-164-18	IC MM1114XFF IC MM1118XFF	(KV-27TS32) (KV-27TS32)
C418 C419 C420	1-124-902-00 1-124-477-11 1-163-031-11	ELECT ELECT CERAMIC CHIP	0.47MF 47MF 0.01MF (KV-32TS46	20%	16V 50V				
C421	1-124-916-11	ELECT	22MF (KV-32TS46	20%	25V		<jac< td=""><td>CK></td><td></td></jac<>	CK>	
C430	1-124-499-11	ELECT	1MF	20%	50V	J401	1-750-515-11	TERMINAL BLOCK, S 3P (XV-32TS46/32TS3	6/27TS36/27TS32)
C431			1MF	20% 20%	-32TS46) 50V	J401 J402	1-750-517-11 1-750-517-11	JACK BLOCK, PIN 3P JACK BLOCK, PIN 3P	(KV-27TS29)
C432	1-124-916-11	ELECT	22MF	20%	32TS46) 25V	100		(KV-32TS46/32TS3	6/27TS36/27TS32)
					-32TS46)	J403 J404	1-750-516-11 1-750-516-11	JACK BLOCK, PIN 2P JACK BLOCK, PIN 2P	(KV-27TS29)
C433		ELECT	33MF (KV-32TS46	/321536/		,			
C434	/		(KV-32TS46	5% /32 T S36/	50V (27TS32)			PER RESISTOR>	
C44U	¿1-124-907-11	ELECT	10MF (KV-32TS46	20 % 5/32TS36/	50V (27TS32)	1	1-216-295-00		1/10W (KY-27TS29)
CLAT	1 104 477 11	D1 D C#	19MB	20%	164		1-216-295-00		1/10W (KV-27TS29)
C441 C442	1-124-477-11 1-163-117-00	CERAMIC CHIE	47MF 100PF (KV-32TS46	20% 5% (22TS26)	16V 50V /27T522\	1	1-216-295-00		1/10W
C462	1-126-101-11	ELECT	100MF	20%	16V	JR408	1-216-295-00 1-216-295-00	METAL GLAZE 0 5% METAL GLAZE 0 5%	1/10W 1/10W
	<fi< td=""><td>LTER BLOCK></td><td></td><td></td><td></td><td>JR410 JR411 JR412</td><td>1-216-295-00 1-216-295-00 1-216-295-00</td><td>METAL GLAZE 0 5% METAL GLAZE 0 5% METAL GLAZE 0 5% METAL GLAZE 0 5%</td><td>1/10W 1/10W 1/10W</td></fi<>	LTER BLOCK>				JR410 JR411 JR412	1-216-295-00 1-216-295-00 1-216-295-00	METAL GLAZE 0 5% METAL GLAZE 0 5% METAL GLAZE 0 5% METAL GLAZE 0 5%	1/10W 1/10W 1/10W
CM40	2 1-466-912-21	FILTER BLOCK	C, COMB				1-216-295-00 1-216-295-00	METAL GLAZE 0 5%	1/10W 1/10W
	<00	NNECTOR>		•		JR416	1-216-295-00	METAL GLAZE . 0 5%	6/27TS36/27TS32) 1/10W
CN14	11 +1-564-520-11	PLUG, CONNEC	CTOR 5P 32TS46/32TS36	5/27TS36,	/27TS32)	JR418	1-216-295-00	METAL GLAZE 0 5%	1/10W

(SUPER WOOFER BOARD)

REF.NO.	PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTIO	N	REM/	ARK
	*A-1331-264-A	SUPER WOOFER	BOARD, CO	MPLETE (K	V-32TS46 only)		<10				
	<cap< th=""><th>ACITOR></th><th></th><th></th><th>····,</th><th>1C001 1C002 1C003</th><th>9-904-756-01° 9-904-756-01 9-904-756-01</th><th>IC NJM2068S IC NJM2068S IC NJM2068S</th><th>in the second of</th><th></th><th></th></cap<>	ACITOR>			····,	1C001 1C002 1C003	9-904-756-01° 9-904-756-01 9-904-756-01	IC NJM2068S IC NJM2068S IC NJM2068S	in the second of		
C001 C002 C003 C004 C005	PART NO	CERAMIC CERAMIC ELECT ELECT FILM	470PF 470PF 1NF 1NF 0.082MF	107 107 207 207 57	50V 50V 50V 50V 50V	1C004 1C005	9-904-755-01 9-904-755-01 <ja(< td=""><td>IC TA8225L(</td><td>PAIO-K)</td><td></td><td></td></ja(<>	IC TA8225L(PAIO-K)		
C006 C007 C008 C009	1-130-494-11 1-130-494-11 1-130-494-11 1-130-490-11 1-124-903-11 1-124-903-11	FILM FILM ELECT	0.039MF 0.082MF 0.039MF 1MF	5% 5% 5% 20%	50V 50V 50V 50V	3001	9-904-139-01	ANSISTOR>			
CHIH	1-124-403-11	REMET	1 1614	202	50V 50V	Q002 Q003 Q004	8-729-119-78 8-729-119-76 8-729-119-76	TRANSISTOR TRANSISTOR TRANSISTOR	250774-34 25C2785-HFE 25A1175-HFE 25A1175-HFE	e. Ne	
C014 C015	1-124-910-11	ELECT	10MP 47MF	20%	50V 50V	2001	<res< td=""><td>SISTOR></td><td>100 5%</td><td>1 /46</td><td></td></res<>	SISTOR>	100 5%	1 /46	
C016 C017 C018 C019 C020	1-102-973-00 1-124-903-11 1-124-908-00 1-124-907-11 1-124-910-11 1-124-472-11 1-124-472-11 1-124-120-11 1-124-120-11 1-102-074-00	BLECT BLECT BLECT CERAMIC	470MF 470MF 220MF 220MF 0.001MF	20% 20% 20% 20% 10%	10V 10V 25V 25V 50V	R001 R002 R003 R004 R005	7-249-405-11 1-249-405-11 1-249-426-11 1-249-426-11 1-247-862-11	CARBON CARBON CARBON CARBON	100 5% 56K 5% 56K 5% 20K 5%	1/4W 1/4W - 1/4W - 1/4W	
C021 C022 C023 C024 C025	1-130-491-00 1-130-491-00 1-124-360-00 1-124-360-00 1-124-636-91	FILM FILM BLECT BLECT BLECT	0.047MF 0.047MF 1000MF 1000MF 3300MF	5% 5% 20% 20% 20%	50V 50V 16V 16V 25V	R006 R007 R008 R009 R010	1-247-862-11 1-247-862-11 1-247-862-11 1-247-862-11 1-247-862-11	CARBON CARBON CARBON CARBON CARBON	20K 5% 20K 5% 20K 5% 20K 5% 20K 5%	1/4W 1/4W 1/4W 1/4W	
C026 C027 C028 C029 C030	1-124-472-11 1-124-472-11 1-124-472-11 1-124-907-11	ELECT ELECT ELECT ELECT	470MF 470MF 470MF 10MF	20% 20% 20% 20%	10V 10V 10V 50V 50V	R011 R012 R013 R014	1-249-431-11 1-249-413-11 1-247-864-11 1-247-864-11	CARBON CARBON CARBON CARBON CARBON	15K 5% 470 5% 24K 5% 24K 5% 24K 5%	1/4W 1/4W 1/4W 1/4W 1/4W	
	<c01< td=""><td>NNECTOR></td><td></td><td></td><td></td><td>R016 R017</td><td>1-247-864-11 1-249-417-11 1-249-429-11 1-247-903-91 1-249-426-11</td><td>CARBON CARBON</td><td>24K 5%</td><td>1/4W 1/4W</td><td></td></c01<>	NNECTOR>				R016 R017	1-247-864-11 1-249-417-11 1-249-429-11 1-247-903-91 1-249-426-11	CARBON CARBON	24K 5%	1/4W 1/4W	
CN001	9-904-761-01	PIN, TERMIN	AL			R019 R020	1-249-429-11 1-247-903-91 1-249-426-11	CARBON CARBON	24K 5% 1K 5% 10K 5% 1M 5% 5.6K 5%	1/4W 1/4W 1/4W	
	<010	ODE>				R021 R022	1-249-417-11 1-249-429-11			1/4W 1/4W	
D001 / D002 / D003 D004	↑ 9-904-758-01 ↑ 9-904-765-01 9-904-766-01 9-904-766-01	DIODE RBA-4 DIODE BRA15 DIODE RD9R1 DIODE RD9R1	02LF-A -02VH-T ES(B2)-T ES(B2)-T			R023 R024 R025	1-249-417-11 1-249-429-11 1-249-429-11 1-249-417-11 1-247-839-11	CARBON CARBON CARBON	1K 5% 10K 5% 10K 5% 1K 5% 2.2K 5%	1/4W 1/4W 1/4W	
D005 D006	A 1-102-129-00 <com 9-904-761-01 <d16 A 9-904-758-01 A 9-904-765-01 9-904-766-01 9-904-766-01 8-719-802-30 8-719-802-30</d16 </com 	DIODE 18817 DIODE 18817	6			R026 R027 R028 R029 R030	1-249-429-11 1-249-417-11 1-247-903-91 1-249-433-11 1-249-440-11	CARBON CARBON CARBON CARBON CARBON	10K 5% 1K 5% 1M 5% 22K 5% 82K 5%	1/4W 1/4W 1/4W 1/4W 1/4W	
						R031 R032 R033	1-249-433-11 1-247-839-11 1-249-433-11			1/4W 1/4W 1/4W	

KV-27TS29/27TS32/27TS36 RM-Y116 KV-32TS36/32TS46 RM-Y118 SA-W200

SONY. SERVICE MANUAL

CORRECTION-1

Correct the service manual as shown below. File this collection with the service manual.

US Model

KV-27TS29 Chassis No. SCC-F84C-A KV-27TS32 Chassis No. SCC-F84E-A KV-27TS36 Chassis No. SCC-F84D-A KV-32TS36 Chassis No. SCC-F84A-A KV-32TS46 Chassis No. SCC-F84B-A

Canadian Model

KV-27TS29 Chassis No. SCC-F85C-A KV-27TS36 Chassis No. SCC-F85D-A KV-32TS36 Chassis No. SCC-F85A-A KV-32TS46 Chassis No. SCC-F85B-A



: Corrected portion

SECTION 3 SET-UP ADJUSTMENTS (See page 40)

Incorrect	Correct					
3-4. G2 (SCREEN) AND WHITE BALANCE ADJUSTMENTS	3-4. G2 (SCREEN) AND WHITE BALANCE ADJUSTMENTS					
 G2 (SCREEN) ADJUSTMENT(RV702) Set the PICTURE and BRIGHTNESS to normal. Confirm G1 voltage is within 30.0±5V. Apply DC voltage of 180V to the cathodes of R, G and B from DC stabilized power source. While watching the picture, adjust the G2 control (RV702) to the just the retrace line disappears. 	 G2 (SCREEN) ADJUSTMENT(RV702) Set the PICTURE and BRIGHTNESS to normal. Confirm G1 voltage is within 30.0±5V. Apply DC voltage of 170V to the cathodes of R, G and B from DC stabilited power source. While watching the picture, adjust the G2 control (RV702) to the just the retrace line disappears. 					



SECTION 7 EXPLODED VIEWS

7-2. PICTURE TUBE (See page 102)

Incorrect	Correct				
63 ▲ 1-451-275-41 DEFLECTION YOKE (Y34FXA) (KV-27TS36/27TS32/27TS29)	63 ▲ 1-451-275-41 DEFLECTION YOKE (Y28PFA) (KV-27TS36/27TS32/27TS29)				

SECTION 8 ELECTRICAL PARTS LIST D BOARD (See page 113)

Incorrect	Correct				
PM501 1-810-061-11 PROTECTOR MODULE PM-39 (KV-27TS36/27TS32/27TS29)	PM501 1-810-061-11 PROTECTOR MODULE PM-38 (KV-27TS36/27TS32/27TS29)				

MISCELLANEOUS (See page 117)

Incorrect	Correct
▲ 1-451-275-41 DEFLECTION YOKE (Y34FXA) (KV-27TS36/32TS32/27TS29)	⚠ 1-451-275-41 DEFLECTION YOKE (Y28PFA) (KV-27TS36/27TS32/27TS29)

KV-27TS29/27TS32/27TS36 RM-Y116

KV-32TS36/32TS4

SA-W200

SONY. SERVICE MANUAL SUPPLEMENT-1

SUBJECT: PARTS CHANGE

Supplement the service manual as shown below. File this supplement with the service manual.

INTRODUCTION

PART CHANGE: KV-32TS36/32TS46 only

SECTION 6 DIAGRAM

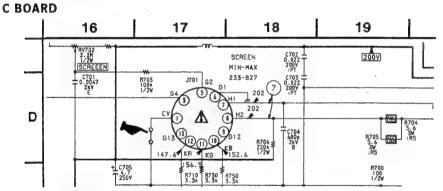
US Model

KV-27TS29 Chassis No. SCC-F84C-A KV-27TS32 Chassis No. SCC-F84E-A KV-27TS36 Chassis No. SCC-F84D-A KV-32TS36 Chassis No. SCC-F84A-A KV-32TS46 Chassis No. SCC-F84B-A

Canadian Model

KV-27TS29 Chassis No. SCC-F85C-A KV-27TS36 Chassis No. SCC-F85D-A KV-32TS36 Chassis No. SCC-F85A-A KV-32TS46 Chassis No. SCC-F85B-A

6-3. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS (See page 64)



SECTION 7 EXPLODED VIEW

7-2. PICTURE TUBE (See page 102)

REF. NO.	PART. NO.	DESCRIPTION
59		PICTURE TUBE (A80JYV50X) (KV-32TS46/32TS36)
	№8-733-848-05	PICTURE TUBE (A68KZJ50X) (KV-27TS36/27TS32/27TS29)

SECTION 8 ELECTRICAL PARTS LIST MISCELLANEOUS (See page 117)

REF. NO.	PART. NO.	DESCRIPTION
V901	№8-733-734-05	PICTURE TUBE (A80JYV50X) (KV-32TS36/32TS46)
	<u></u> ≜ 8-733-848-05	PICTURE TUBE (A68KZJ50X) (KV-27TS36/27TS32/27TS29)



KV-27TS29/27TS32/27TS36 RM-Y116

KV-32TS36/32TS46

RM-Y118

RM-Y119 SA-W200

SONY. SERVICE MANUAL

US Model

KV-27TS29 Chassis No. SCC-F84C-A KV-27TS32 Chassis No. SCC-F84E-A KV-27TS36 Chassis No. SCC-F84D-A KV-32TS36 Chassis No. SCC-F84A-A KV-32TS46 Chassis No. SCC-F84B-A

CORRECTION-2

SUBJECT: PART CHANGE

Correct the service manual as shown below. File this collection with the service manual.

Canadian Model

KV-27TS29 Chassis No. SCC-F85C-A KV-27TS36 Chassis No. SCC-F85D-A KV-32TS36 Chassis No. SCC-F85A-A KV-32TS46 Chassis No. SCC-F85B-A



: Corrected portion

SECTION 8 ELECTRICAL PARTS LIST D BOARD (See page 112)

Incorrect			Correct			
REF. NO.	PART. NO. 8-719-031-80	DESCRIPTION DIODE D5SC4MR	REF. NO.	PART. NO. 8-719-031-79	DESCRIPTION DIODE D5SC4M	
5012	0-715-031-00	DIODE DISCHMIN	D012	6-119-031-19	DIODE DSSC4M	



KV-27TS29/27TS32/27TS36 RM-Y116

KV-32TS36/32TS46

RM-Y118

RM-Y119 SA-W200

SONY. SERVICE MANUAL

US Model

KV-27TS29 Chassis No. SCC-F84C-A KV-27TS32 Chassis No. SCC-F84E-A KV-27TS36 Chassis No. SCC-F84D-A KV-32TS46 Chassis No. SCC-F84A-A KV-32TS46 Chassis No. SCC-F84B-A

Canadian Model

KV-27TS29 Chassis No. SCC-F85C-A KV-27TS36 Chassis No. SCC-F85D-A KV-32TS36 Chassis No. SCC-F85A-A KV-32TS46 Chassis No. SCC-F85B-A

CORRECTION-3

SUBJECT : PART CHANGE

Correct the service manual as shown below. File this collection with the service manual.

: Corrected portion

SECTION 8 ELECTRICAL PARTS LIST D BOARD (See page 112)

Incorrect	Correct			
REF. NO. PART. NO. [IC610 8-759-150-61 I	DESCRIPTION IC UPC78L05T	REF. NO.	PART. NO. 8-759-708-05	DESCRIPTION IC NJM78L054



K25

SONY. SERVICE MANUAL

AA-1 chassis

MODEL	COMMANDER	DEST.	CHASSIS NO.	MODEL	COMMANDER	DEST.	CHASSIS NO.
KV-27TS29	RM-Y116	US	SCC-F84C-A	KV-32TS36	RM-Y118	US	SCC-F84A-A
KV-27TS29	RM-Y116	Canadia	in SCC-F85C-A	KV-32TS36	RM-Y118 (Canadian	SCC-F85A-A
KV-27TS32	RM-Y117	US	SCC-F84E-A	KV-32TS46	RM-Y118 SA-W200	US	SCC-F84B-A
KV-27TS36	RM-Y118	US	SCC-F84D-A	KV-32TS46	RM-Y118 (SA-W200	Canadian	SCC-F85B-A
KV-27TS36	RM-Y118	Canadia	an SCC-F85D-A				

CORRECTION-4

SUBJECT: ADJUSTMENT CHANGE

File this correction with the Service manual.

: Corrected portion

SECTION 3 SET-UP ADJUSTMENT

Preparations(See page 35)

INCORRECT	CORRECT	
(1) In order to reduce the influence of geomagnetism on the set's picture tube face it east or west.	(1) In order to reduce the influence of geomagnetism on the set's picture tube face it east or west.	
(2) Switch on the set's power and degauss with the degausser.	Note:Please do not use the hand degausser, because the hand degausser efects a spot on a CRT and magnetizes CRT around.	



※ Please file according to model size.





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(SUPER WOOFER BOARD)

REF.NO. PART NO.	DESCRIPTION	Ä	REMARK		
R034 1-249-429-11 R035 1-249-429-11 R036 1-249-433-11 R037 1-249-417-11 R038 1-247-866-11	CARBON 101 CARBON 101 CARBON 221 CARBON 1K CARBON 301	7 5% 1/4W 7 5% 1/4W 5% 1/4W	9.		
R039 1-249-405-11 R040 1-247-842-11 R041 1-249-405-11 R042 1-247-842-11 R043 9-904-764-01	CARBON 100 CARBON 3K CARBON 100 CARBON 3K METAL OXIDE 1	5% 1/4W 5% 1/4W			
R044 9-904-764-01 R046 ★ 9-904-762-01 R047 9-904-763-01 R048 I-249-429-11 R049 I-249-429-11	METAL OXIDE 1 METAL OXIDE 10 METAL OXIDE 1.8 CARBON 100 CARBON 100	BK 5% 1/2W C 5% 1/4W			
<variable resistor=""></variable>					
VR001 9-904-760-01	VOLUME				

MISCELLANEOUS *********

₾ 9-904-750-01 CORD, POWER 10 - A. T ₾ 9-904-753-01 AC OUTLET F001 & 9-904-752-01 SP901 9-900-278-01 T901 & 9-904-751-01 FUSE SPEAKER TRANSFORMER, POWER